

PENNSYLVANIA GAME COMMISSION

**STATE GAME LANDS #050
NEW 40'X100' CREW HEADQUARTERS BUILDING
Somerset Township, Somerset 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:

Zachary Whitenight, Civil Engineer
Pennsylvania Game Commission
2001 Elmerton Ave
Harrisburg PA 17110
Office: 717-787-4250 Ext 73628
Email: zwhitenigh@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.

**SGL #050 Crew Headquarters Building
Contract No. PGC-050-24-01**

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 and shall terminate on **June 30, 2026**. 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*.

(Contract No. 2- Mechanical Construction Contract is exempt from Performance Security and Payment Bond)

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

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

Project Name:	SGL 050 Crew Headquarters Building
General Description:	Construction of new crew headquarters building to include plumbing, electrical, and HVAC mechanical work.
Project Locality	Somerset Township
Awarding Agency:	Pennsylvania Game Commission
Contract Award Date:	8/1/2025
Serial Number:	25-05697
Project Classification:	Building
Determination Date:	5/30/2025
Assigned Field Office:	Altoona
Field Office Phone Number:	(814)940-6224
Toll Free Phone Number:	
Project County:	Somerset County

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

Project: 25-05697 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	8/1/2024		\$41.55	\$29.51	\$71.06
Boilermakers	6/1/2016		\$40.90	\$27.61	\$68.51
Bricklayer	12/1/2024		\$38.14	\$23.03	\$61.17
Bricklayer	6/1/2025		\$38.65	\$23.52	\$62.17
Carpenters - Piledriver/Welder	1/1/2024		\$42.13	\$21.97	\$64.10
Carpenters - Piledriver/Welder	1/1/2025		\$43.38	\$22.72	\$66.10
Carpenters - Piledriver/Welder	1/1/2026		\$44.63	\$23.47	\$68.10
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2024		\$33.72	\$19.20	\$52.92
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2025		\$34.76	\$20.91	\$55.67
Cement Masons	1/1/2025		\$31.97	\$21.47	\$53.44
Cement Masons	1/1/2026		\$32.97	\$22.47	\$55.44
Drywall Finisher	6/1/2023		\$32.39	\$23.75	\$56.14
Drywall Finisher	1/1/2025		\$34.01	\$24.63	\$58.64
Electricians & Telecommunications Installation Technician	12/27/2024		\$50.86	\$32.69	\$83.55
Electricians & Telecommunications Installation Technician	12/26/2025		\$54.16	\$32.69	\$86.85
Elevator Constructor	1/1/2024		\$58.55	\$43.87	\$102.42
Elevator Constructor	1/1/2025		\$61.07	\$40.05	\$101.12
Glazier	9/1/2024		\$26.00	\$26.95	\$52.95
Iron Workers	5/1/2024		\$31.00	\$24.40	\$55.40
Laborers (Class 01 - See notes)	1/1/2023		\$25.31	\$17.29	\$42.60
Laborers (Class 01 - See notes)	1/1/2024		\$26.31	\$17.79	\$44.10
Laborers (Class 01 - See notes)	1/1/2025		\$28.31	\$17.82	\$46.13
Laborers (Class 01 - See notes)	1/1/2026		\$29.31	\$18.82	\$48.13
Laborers (Class 01 - See notes)	1/1/2027		\$30.31	\$19.82	\$50.13
Laborers (Class 02 - See notes)	1/1/2023		\$28.06	\$17.29	\$45.35
Laborers (Class 02 - See notes)	1/1/2024		\$29.56	\$17.79	\$47.35
Laborers (Class 02 - See notes)	1/1/2025		\$30.66	\$17.82	\$48.48
Laborers (Class 02 - See notes)	1/1/2026		\$31.66	\$18.82	\$50.48
Laborers (Class 02 - See notes)	1/1/2027		\$32.66	\$19.82	\$52.48
Laborers (Class 03 - See notes)	1/1/2023		\$27.66	\$17.29	\$44.95
Laborers (Class 03 - See notes)	1/1/2024		\$28.66	\$17.79	\$46.45
Laborers (Class 03 - See notes)	1/1/2025		\$31.56	\$17.82	\$49.38
Laborers (Class 03 - See notes)	1/1/2026		\$32.56	\$18.82	\$51.38
Laborers (Class 03 - See notes)	1/1/2027		\$33.56	\$19.82	\$53.38
Laborers (Class 04 - See notes)	1/1/2023		\$24.31	\$17.29	\$41.60
Laborers (Class 04 - See notes)	1/1/2024		\$25.31	\$17.79	\$43.10
Laborers (Class 04 - See notes)	1/1/2025		\$27.31	\$17.82	\$45.13
Laborers (Class 04 - See notes)	1/1/2026		\$28.31	\$18.82	\$47.13
Laborers (Class 04 - See notes)	1/1/2027		\$29.31	\$19.82	\$49.13
Landscape Laborer (Skilled)	1/1/2024		\$24.79	\$18.53	\$43.32
Landscape Laborer (Skilled)	1/1/2025		\$25.79	\$18.78	\$44.57
Landscape Laborer (Skilled)	1/1/2026		\$26.79	\$19.03	\$45.82

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

Project: 25-05697 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Landscape Laborer (Tractor Operator)	1/1/2024		\$25.09	\$18.53	\$43.62
Landscape Laborer (Tractor Operator)	1/1/2025		\$26.09	\$18.78	\$44.87
Landscape Laborer (Tractor Operator)	1/1/2026		\$27.09	\$19.03	\$46.12
Landscape Laborer	1/1/2024		\$24.37	\$18.53	\$42.90
Landscape Laborer	1/1/2025		\$25.37	\$18.78	\$44.15
Landscape Laborer	1/1/2026		\$26.37	\$19.03	\$45.40
Millwright	6/1/2020		\$41.68	\$20.32	\$62.00
Operators (Class 01 - see notes)	7/1/2024		\$36.87	\$21.42	\$58.29
Operators (Class 01 - see notes)	7/1/2025		\$37.97	\$21.82	\$59.79
Operators (Class 01 - see notes)	7/1/2026		\$39.12	\$22.17	\$61.29
Operators (Class 02 -see notes)	7/1/2024		\$32.87	\$21.42	\$54.29
Operators (Class 02 -see notes)	7/1/2025		\$33.35	\$21.82	\$55.17
Operators (Class 02 -see notes)	7/1/2026		\$34.50	\$22.17	\$56.67
Operators (Class 03 - See notes)	7/1/2024		\$29.70	\$21.42	\$51.12
Operators (Class 03 - See notes)	7/1/2025		\$30.80	\$21.82	\$52.62
Operators (Class 03 - See notes)	7/1/2026		\$31.95	\$22.17	\$54.12
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2024		\$29.30	\$21.42	\$50.72
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2025		\$30.40	\$21.82	\$52.22
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2026		\$31.55	\$22.17	\$53.72
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2024		\$28.30	\$21.42	\$49.72
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2025		\$29.40	\$21.82	\$51.22
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2026		\$30.55	\$22.17	\$52.72
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2024		\$27.85	\$21.42	\$49.27
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2025		\$28.95	\$21.82	\$50.77
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2026		\$30.10	\$22.17	\$52.27
Painters Class 6 (see notes)	6/1/2024		\$32.14	\$24.93	\$57.07
Painters Class 6 (see notes)	6/1/2025		\$34.16	\$25.81	\$59.97
Pile Driver Divers (Building, Heavy, Highway)	1/1/2024		\$60.95	\$21.97	\$82.92
Pile Driver Divers (Building, Heavy, Highway)	1/1/2025		\$62.82	\$22.72	\$85.54
Pile Driver Divers (Building, Heavy, Highway)	1/1/2026		\$64.70	\$23.47	\$88.17
Piledrivers	1/1/2024		\$40.63	\$21.97	\$62.60
Piledrivers	1/1/2025		\$41.88	\$22.72	\$64.60
Piledrivers	1/1/2026		\$43.13	\$23.47	\$66.60
Plasterers	6/1/2024		\$33.14	\$21.04	\$54.18
Plumbers and Steamfitters	6/1/2024		\$40.02	\$27.01	\$67.03
Plumbers and Steamfitters	6/1/2025		\$41.47	\$27.71	\$69.18
Plumbers and Steamfitters	6/1/2026		\$42.92	\$28.45	\$71.37
Pointers, Caulkers, Cleaners	12/1/2024		\$39.69	\$21.61	\$61.30

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

Project: 25-05697 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Pointers, Caulkers, Cleaners	6/1/2025		\$40.66	\$21.99	\$62.65
Roofers	6/1/2023		\$37.00	\$19.92	\$56.92
Roofers	6/2/2024		\$38.00	\$20.67	\$58.67
Sheet Metal Workers	7/1/2024		\$43.00	\$33.96	\$76.96
Sign Makers and Hangars	7/15/2023		\$31.76	\$24.63	\$56.39
Sign Makers and Hangars	7/15/2024		\$32.32	\$25.82	\$58.14
Sprinklerfitters	4/1/2023		\$44.33	\$28.04	\$72.37
Sprinklerfitters	4/1/2024		\$46.45	\$28.62	\$75.07
Sprinklerfitters	4/1/2025		\$49.75	\$29.21	\$78.96
Stone Masons	12/1/2022		\$38.56	\$23.61	\$62.17
Terrazzo Finisher	12/1/2024		\$41.04	\$18.72	\$59.76
Terrazzo Finisher	6/1/2025		\$41.73	\$19.03	\$60.76
Terrazzo Mechanics	12/1/2022		\$35.49	\$20.32	\$55.81
Terrazzo Mechanics	6/1/2024		\$39.14	\$20.77	\$59.91
Terrazzo Mechanics	12/1/2024		\$40.39	\$21.02	\$61.41
Terrazzo Mechanics	6/1/2025		\$41.13	\$21.28	\$62.41
Tile Finisher	12/1/2022		\$28.76	\$17.34	\$46.10
Tile Finisher	6/1/2024		\$31.56	\$17.74	\$49.30
Tile Finisher	12/1/2024		\$32.51	\$17.99	\$50.50
Tile Finisher	6/1/2025		\$33.24	\$18.36	\$51.60
Tile Setter	6/1/2024		\$38.46	\$22.19	\$60.65
Tile Setter	12/1/2024		\$39.41	\$22.44	\$61.85
Tile Setter	6/1/2025		\$40.15	\$22.80	\$62.95
Truckdriver class 1(see notes)	1/1/2024		\$34.93	\$22.71	\$57.64
Truckdriver class 1(see notes)	1/1/2025		\$36.43	\$23.21	\$59.64
Truckdriver class 1(see notes)	1/1/2026		\$37.93	\$23.71	\$61.64
Truckdriver class 2 (see notes)	1/1/2023		\$33.64	\$22.52	\$56.16
Truckdriver class 2 (see notes)	1/1/2024		\$35.39	\$23.02	\$58.41
Truckdriver class 2 (see notes)	1/1/2025		\$36.89	\$23.52	\$60.41
Truckdriver class 2 (see notes)	1/1/2026		\$38.39	\$24.02	\$62.41
Window Film / Tint Installer	10/1/2019		\$25.00	\$2.63	\$27.63

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

Project: 25-05697 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	1/1/2023		\$38.35	\$20.59	\$58.94
Carpenter	1/1/2024		\$39.85	\$21.34	\$61.19
Carpenter	1/1/2025		\$41.10	\$22.09	\$63.19
Carpenter	1/1/2026		\$42.35	\$22.84	\$65.19
Carpenter Welder	1/1/2023		\$39.85	\$20.59	\$60.44
Carpenter Welder	1/1/2024		\$41.35	\$21.34	\$62.69
Carpenter Welder	1/1/2025		\$42.60	\$22.09	\$64.69
Carpenter Welder	1/1/2026		\$43.85	\$22.84	\$66.69
Carpenters - Piledriver/Welder	1/1/2023		\$40.63	\$21.22	\$61.85
Carpenters - Piledriver/Welder	1/1/2024		\$42.13	\$21.97	\$64.10
Carpenters - Piledriver/Welder	1/1/2025		\$43.38	\$22.72	\$66.10
Carpenters - Piledriver/Welder	1/1/2026		\$44.63	\$23.47	\$68.10
Cement Finishers	1/1/2023		\$34.14	\$25.05	\$59.19
Cement Finishers	1/1/2024		\$35.14	\$26.30	\$61.44
Cement Finishers	1/1/2025		\$35.94	\$27.50	\$63.44
Cement Masons	1/1/2020		\$32.84	\$21.10	\$53.94
Electric Lineman	5/29/2023		\$52.56	\$29.99	\$82.55
Electric Lineman	6/3/2024		\$53.97	\$31.05	\$85.02
Iron Workers	5/1/2021		\$28.91	\$22.99	\$51.90
Iron Workers	5/1/2024		\$31.00	\$24.40	\$55.40
Laborers (Class 01 - See notes)	1/1/2023		\$29.95	\$25.50	\$55.45
Laborers (Class 01 - See notes)	1/1/2024		\$32.20	\$25.50	\$57.70
Laborers (Class 01 - See notes)	1/1/2025		\$33.70	\$26.00	\$59.70
Laborers (Class 01 - See notes)	1/1/2026		\$34.70	\$27.00	\$61.70
Laborers (Class 02 - See notes)	1/1/2023		\$30.11	\$25.50	\$55.61
Laborers (Class 02 - See notes)	1/1/2024		\$32.36	\$25.50	\$57.86
Laborers (Class 02 - See notes)	1/1/2025		\$33.86	\$26.00	\$59.86
Laborers (Class 02 - See notes)	1/1/2026		\$34.86	\$27.00	\$61.86
Laborers (Class 03 - See notes)	1/1/2023		\$30.50	\$25.50	\$56.00
Laborers (Class 03 - See notes)	1/1/2024		\$32.75	\$25.50	\$58.25
Laborers (Class 03 - See notes)	1/1/2025		\$34.25	\$26.00	\$60.25
Laborers (Class 03 - See notes)	1/1/2026		\$35.25	\$27.00	\$62.25
Laborers (Class 04 - See notes)	1/1/2023		\$30.95	\$25.50	\$56.45
Laborers (Class 04 - See notes)	1/1/2024		\$33.20	\$25.50	\$58.70
Laborers (Class 04 - See notes)	1/1/2025		\$34.70	\$26.00	\$60.70
Laborers (Class 04 - See notes)	1/1/2026		\$35.70	\$27.00	\$62.70
Laborers (Class 05 - See notes)	1/1/2023		\$31.36	\$25.50	\$56.86
Laborers (Class 05 - See notes)	1/1/2024		\$33.61	\$25.50	\$59.11
Laborers (Class 05 - See notes)	1/1/2025		\$35.11	\$26.00	\$61.11
Laborers (Class 05 - See notes)	1/1/2026		\$36.11	\$27.00	\$63.11
Laborers (Class 06 - See notes)	1/1/2023		\$28.20	\$25.50	\$53.70
Laborers (Class 06 - See notes)	1/1/2024		\$30.45	\$25.50	\$55.95
Laborers (Class 06 - See notes)	1/1/2025		\$31.95	\$26.00	\$57.95
Laborers (Class 06 - See notes)	1/1/2026		\$32.95	\$27.00	\$59.95

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

Project: 25-05697 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 07 - See notes)	1/1/2023		\$30.95	\$25.50	\$56.45
Laborers (Class 07 - See notes)	1/1/2024		\$33.20	\$25.50	\$58.70
Laborers (Class 07 - See notes)	1/1/2025		\$34.70	\$26.00	\$60.70
Laborers (Class 07 - See notes)	1/1/2026		\$35.70	\$27.00	\$62.70
Laborers (Class 08 - See notes)	1/1/2023		\$32.45	\$25.50	\$57.95
Laborers (Class 08 - See notes)	1/1/2024		\$34.70	\$25.50	\$60.20
Laborers (Class 08 - See notes)	1/1/2025		\$36.20	\$26.00	\$62.20
Laborers (Class 08 - See notes)	1/1/2026		\$37.20	\$27.00	\$64.20
Millwright	6/1/2020		\$41.68	\$20.32	\$62.00
Millwright	6/1/2023		\$45.50	\$23.72	\$69.22
Millwright	6/1/2024		\$47.59	\$23.72	\$71.31
Millwright	6/1/2025		\$49.72	\$23.72	\$73.44
Operators (Class 01 - see notes)	1/1/2023		\$36.79	\$23.58	\$60.37
Operators (Class 01 - see notes)	1/1/2024		\$38.59	\$24.03	\$62.62
Operators (Class 01 - see notes)	1/1/2025		\$40.39	\$24.23	\$64.62
Operators (Class 01 - see notes)	1/1/2026		\$41.96	\$24.66	\$66.62
Operators (Class 02 -see notes)	1/1/2023		\$36.53	\$23.58	\$60.11
Operators (Class 02 -see notes)	1/1/2024		\$38.33	\$24.03	\$62.36
Operators (Class 02 -see notes)	1/1/2025		\$40.13	\$24.23	\$64.36
Operators (Class 02 -see notes)	1/1/2026		\$41.70	\$24.66	\$66.36
Operators (Class 03 - See notes)	1/1/2023		\$32.88	\$23.58	\$56.46
Operators (Class 03 - See notes)	1/1/2024		\$34.68	\$24.03	\$58.71
Operators (Class 03 - See notes)	1/1/2025		\$36.48	\$24.23	\$60.71
Operators (Class 03 - See notes)	1/1/2026		\$38.05	\$24.66	\$62.71
Operators (Class 04 - See notes)	1/1/2023		\$32.42	\$23.58	\$56.00
Operators (Class 04 - See notes)	1/1/2024		\$34.22	\$24.03	\$58.25
Operators (Class 04 - See notes)	1/1/2025		\$36.02	\$24.23	\$60.25
Operators (Class 04 - See notes)	1/1/2026		\$37.59	\$24.66	\$62.25
Operators (Class 05 - See notes)	1/1/2023		\$32.17	\$23.58	\$55.75
Operators (Class 05 - See notes)	1/1/2024		\$33.97	\$24.03	\$58.00
Operators (Class 05 - See notes)	1/1/2025		\$35.77	\$24.23	\$60.00
Operators (Class 05 - See notes)	1/1/2026		\$37.34	\$24.66	\$62.00
Operators Class 1-A	1/1/2023		\$39.79	\$23.58	\$63.37
Operators Class 1-A	1/1/2024		\$41.59	\$24.03	\$65.62
Operators Class 1-A	1/1/2025		\$43.39	\$24.23	\$67.62
Operators Class 1-A	1/1/2026		\$44.96	\$24.66	\$69.62
Operators Class 1-B	1/1/2023		\$38.79	\$23.58	\$62.37
Operators Class 1-B	1/1/2024		\$40.59	\$24.03	\$64.62
Operators Class 1-B	1/1/2025		\$42.39	\$24.23	\$66.62
Operators Class 1-B	1/1/2026		\$43.96	\$24.66	\$68.62
Painters Class 1 (see notes)	6/1/2022		\$34.45	\$22.82	\$57.27
Painters Class 2 (see notes)	6/1/2019		\$35.25	\$20.06	\$55.31
Painters Class 2 (see notes)	6/1/2023		\$36.01	\$24.01	\$60.02
Painters Class 2 (see notes)	6/1/2024		\$38.09	\$24.93	\$63.02

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

Project: 25-05697 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Painters Class 2 (see notes)	6/1/2025		\$40.36	\$25.81	\$66.17
Painters Class 3 (see notes)	6/1/2022		\$36.77	\$22.82	\$59.59
Painters Class 3 (see notes)	6/1/2023		\$38.33	\$24.01	\$62.34
Painters Class 3 (see notes)	6/1/2024		\$40.66	\$24.93	\$65.59
Painters Class 3 (see notes)	6/1/2025		\$43.69	\$25.81	\$69.50
Painters Class 4 (see notes)	6/1/2019		\$28.20	\$20.06	\$48.26
Painters Class 5 (see notes)	6/1/2019		\$22.91	\$20.06	\$42.97
Pile Driver Divers (Building, Heavy, Highway)	1/1/2023		\$58.70	\$21.22	\$79.92
Pile Driver Divers (Building, Heavy, Highway)	1/1/2024		\$60.95	\$21.97	\$82.92
Pile Driver Divers (Building, Heavy, Highway)	1/1/2025		\$62.82	\$22.72	\$85.54
Pile Driver Divers (Building, Heavy, Highway)	1/1/2026		\$64.70	\$23.47	\$88.17
Piledrivers	1/1/2023		\$39.13	\$21.22	\$60.35
Piledrivers	1/1/2024		\$40.63	\$21.97	\$62.60
Piledrivers	1/1/2025		\$41.88	\$22.72	\$64.60
Piledrivers	1/1/2026		\$43.13	\$23.47	\$66.60
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$48.43	\$40.28	\$88.71
Truckdriver class 1(see notes)	1/1/2023		\$33.18	\$22.21	\$55.39
Truckdriver class 1(see notes)	1/1/2024		\$34.93	\$22.71	\$57.64
Truckdriver class 1(see notes)	1/1/2025		\$36.43	\$23.21	\$59.64
Truckdriver class 1(see notes)	1/1/2026		\$37.93	\$23.71	\$61.64
Truckdriver class 2 (see notes)	1/1/2023		\$33.64	\$22.52	\$56.16
Truckdriver class 2 (see notes)	1/1/2024		\$35.39	\$23.02	\$58.41
Truckdriver class 2 (see notes)	1/1/2025		\$36.89	\$23.52	\$60.41
Truckdriver class 2 (see notes)	1/1/2026		\$38.39	\$24.02	\$62.41

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: _____



Commonwealth of Pennsylvania
Public Works Employment Verification Form

Complete and return the form to the contracting Public Body prior to the award of the contract.

Company Legal Name: _____

Doing Business As: _____

(if different from Legal Name)

Mailing Address: _____

Street Address 1

Street Address 2

City

State

Zip Code

Check one:

Contractor

Subcontractor

Contracting Public Body: _____

Contract/Project Number: _____

Project Description: _____

Project Location: _____

Date Enrolled in E-Verify (MM/DD/YYYY): _____

As a contractor/subcontractor for the above referenced public works contract, I hereby affirm that as of today's date, _____, our company is in compliance with the Public Works Employment Verification Act ('the Act') through utilization of the federal E-Verify Program (EVP) operated by the United States Department of Homeland Security. To the best of my/our knowledge, all employees hired are authorized to work in the United States.

It is also agreed to that all public works contractors/subcontractors will utilize the federal EVP to verify the employment eligibility of each new hire within five (5) business days of the employee start date throughout the duration of the public works contract. Documentation confirming the use of the federal EVP upon each new hire shall be maintained in the event of an investigation or audit.

I, _____, authorized representative of the company above, attest that the information contained in this verification form is true and correct and understand that the submission of false or misleading information in connection with the above verification shall be subject to sanctions provided by law.

Authorized Representative Signature

Date of Signature

Printed Name: _____

Phone Number: _____ **Email:** _____



Russia Belarus Certification

Background

Pennsylvania [Act 57 of 2023](#) states that persons associated with Russia or Belarus may not bid on, submit a proposal for, enter into, be a party to or renew a contract with a Commonwealth agency for the provision of goods or services. Per Act 57, the Pennsylvania Treasury Department will publish a list of such persons.

To be compliant with this Act, the contracting officer will review the list published by Treasury as part of the determination of contractor responsibility prior to contract award. This process is outlined below. This completed document should be attached to the contract.

Instructions

1. Access the "Act 57 – Russia" list on the Pennsylvania Treasury's Divestment Page: [List-Pursuant-to-Act-57-of-2023-Russia.pdf \(patreasury.gov\)](#)
2. Search for the supplier on the list. Use the name as listed on the supplier's proposal/bid submission.
3. Complete the attestation below and attach to the contract. Suppliers appearing on the Treasury-published list are deemed not responsible and may not be issued a contract.

Attestation

On _____, I, _____, verified that _____ is not on the list of individuals doing business with Russia and Belarus, as accessed via the link above.

Signature of Attesting Individual

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF LABOR AND INDUSTRY

Bureau of Occupational and Industrial Safety



UNIFORM CONSTRUCTION CODE

BUILDING PERMIT

The plans and specifications for the building or structure named below have been reviewed by the Department of Labor and Industry and found to be in compliance with the Pennsylvania Construction Code Law (1999, November 10, P.L. 491, No. 45).

Permit Number	202500771
Permit Holder	ZACHARY WHGITENIGHT PA GAME COMMISSION
Address	2001 ELERTON AVENUE HARRISBURG PA 17110
Building/Structure Name	STATE GAME COMMISSION SGL 050 - NEW CREW HEADQUARTERS 40X100
Building Address	772 PLANK RD SOMERSET 15501
Political Subdivision:	SOMERSET TOWNSHIP
County:	SOMERSET
Approved use and occupancy classification(s)	B S1
Approved construction type	VB
Plan code	BUILDING

This permit authorizes construction of the above named building or structure in accordance with the Pennsylvania Construction Code Act, its regulations and all plans and specifications approved by the Department. A copy of this permit shall be retained at the work site until the completion of all construction.

File Number	555337
Date Issued	7/9/2025

A handwritten signature in cursive script that reads "Brian N. Force".

Brian N. Force
Building Code Official

A highway access occupancy permit is required under S420 of the State highway Law (36 P.S.S 670-420) before driveway access to a commonwealth highway is permitted.

Uniform Construction Code (UCC)

INSPECTION LOG

THIS LOG MUST BE RETAINED AT THE CONSTRUCTION OR DEMOLITION SITE UNTIL THE COMPLETION OF ALL WORK AND MUST BE MADE AVAILABLE TO ALL DEPARTMENT CODE OFFICIALS, UPON REQUEST. All Inspections preceded by a "Y" must be performed in accordance with the approved construction documents and section 403.45 of the UCC before a "Certificate of Compliance or a Certificate of Occupancy and Use" will be issued. This document's only use is to inform the permit holder of required inspections and is to enable L&I staff to record the completion of these inspections during the course of the construction process. It is not intended to document the fulfillment of all required UCC obligations or establish the right to legally occupy the building or structure named below.

Drawing Index Number: 202500771
Building/Structure Name: State Game Commission
Address: 772 Plank Rd
Somerset PA 15501

File Number: 555337

Requests for inspections must be made in conformance with the Inspection Procedures Statement and should be directed to the inspector named below.

Inspector: Frank Bopp (814)244-7228 fbopp@pa.gov				
If unavailable, contact Central Office: 717-787-1291 jecole@pa.gov				
REQUIRED	INSPECTION	INSPECTOR (PRINT)	INSPECTOR (SIGNATURE)	DATE ACCEPTED
Y	Footing Environment			
Y	Foundation			
Y	Concrete Under Slab/Floor			
	Underground Plumbing			
	Underground Mechanical			
	Underground Electrical			
Y	Plumbing Rough-in			
Y	Mechanical Rough-in			
Y	Electrical Rough-in			
D	Framing			
Y	Insulation			
	Fire Protection			
Y	Accessibility Final			
Y	Energy Final			
Y	Mechanical Final			
Y	Electrical Final			
Y	Plumbing Final			
Y	Building Final			
	Demolition Final			
	Alterations Final			
	Sign Final			
	Structure Final			

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 – Submittals
- Section 3 – ES Control
- Section 4 – Excavation
- Section 5 – Foreign Borrow Excavation
- Section 6 – Compacted Backfill
- Section 7 – Aggregate
- Section 8 – Vapor Barrier
- Section 9 – Concrete
- Section 10 – Framing Lumber and Carpentry
- Section 11 – Roof Trusses
- Section 12 - Metal Siding and Roof Panels
- Section 13 – Soffits and Fascia
- Section 14 – Gutter and Spouting
- Section 15 – Insulation
- Section 16 – Suspended Ceiling System
- Section 17 – Windows
- Section 18 – Doors
- Section 19 – Architectural Wood Casework
- Section 20 – Incidentals
- Section 21 – Seeding
- Section 22 – Septic System
- Section 23 – HVAC Installation/Components (CONTRACT No. 2)
- Section 24 – Plumbing System/Components (CONTRACT No. 3)
- Section 25 – Electrical Power Supply Connection (CONTRACT No. 4)
- Section 26 – Electric Power Distribution & Lighting (CONTRACT No. 4)

DRAWINGS

The following Drawings are included:

- CS-1 Cover Sheet
- SP-1 Existing Site Plan
- SP-2 Proposed Site Plan
- A-1 Floor Plan
- A-2 Elevations, Schedules, Reflected Ceiling Plan & Interior Elevations
- A-3 Wall Section & Details
- A-4 Sections & Details
- P-1 Plumbing Floor Plan, Elevations & Details
- M-1 Mechanical Floor Plan & Details
- E-1 Electrical Floor Plan, Schedules & Details
- E&S-1 Erosion and Sediment Control Plan

TECHNICAL SPECIFICATION SECTION No. 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

The intent of this project is to construct a new 40' x 100' pole building to serve as the Pennsylvania Game Commission (PGC) maintenance crew headquarters. The new building is in Somerset Township, Somerset County on State Game Lands #050. The project consists of constructing the pole building structure with concrete floor slabs, wood framing, installing metal roofing and siding panels, installing insulation, interior OSB walls w/FRP panels, installing doors, windows, installation of HVAC, electrical and plumbing building systems and other building appurtenances. Connections of the utilities for the new building are part of this project and include the telephone, electric, sewer and water supply systems. Piping and connection to a new septic holding tank on site is part of the General Contract. The connections including trenching and backfilling will be the responsibility of the associated contract. The site is mainly level but will need some excavation and additional fill w/stone for the parking area. This is included in the quantities.

1.2 – WORK AREA

The work area for this project is on State Game Lands #050. The building site is located off of State Route 3041, Berline Plank Road, in Somerset Township, with an address of 772 Plank Road, PA 15501. The property is owned by the PGC.

1.3 – WORK HOURS

The work hours at the project site are during regular PGC business hours which are Monday through Friday, 7:00AM to 3:30PM. Work during different hours is permitted with prior approval by the PGC. Requests should be submitted two days in advance.

1.4 – ACCESS TO WORK AREA

Access to the work area is directly off Berlin Plank Road. The Contractor may use any available space to store equipment or materials on site with permission from the PGC but must provide access for PGC around the site.

1.5 – SITE LAYOUT AND PREPARATION

The PGC will locate the approximate building footprint and mark the floor elevation during the initial job conference. The Contractor is responsible for the new building construction, installing the required utility systems and/or lines and grading/placement of the stone parking area around the new building.

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 only fee expected may or may not be a third-party inspection of the electrical meter base and trenching.* The PGC has secured a building permit from the PA Department of Labor & Industry (L&I) for construction of this building at no cost to the contractor. A copy of this permit will be provided to the contractor along with an inspection log checklist. The contractor shall notify the L&I inspector and coordinate with the PGC so that the required inspections take place, and the project is not unduly delayed. ***Local building code officials have no jurisdiction over 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, safety measures, and/or other protective facilities.

All applicable Federal and State laws and regulations and regulations of all utilities, 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.

TECHNICAL SPECIFICATION SECTION No. 2 - SUBMITTALS

2.1 – SECTION INCLUDES/CONTENT

- A. Included in this section of the specifications is a list of approvals required for all materials incorporated into the project. The Pennsylvania Game Commission reserves the right to require additional approvals if necessary. No material, equipment or supplies listed herein shall be incorporated into the work until the Contractor has obtained prior approval from the Department.
- B. Submittals required by each prime contract are indicated in the description of items to be submitted, Paragraph 2.8.

2.2 - SUBMITTAL PROCEDURES

- A. Comply with the following or resubmission will be required:
 - 1. Indicate contract number and specification section on each item submitted.
 - 2. Signify approval by stamp, initialing and dating each item prior to submission to the Designer.
- B. Items requiring testing shall be forwarded directly to the approved laboratory. The Contractor shall pay all costs associated with testing.
- C. Expedite critical materials, equipment and shop drawings, and other required submissions.
- D. Incomplete submissions will be returned for resubmission.
- E. Use of substitutions for materials or details shown on the contract drawings or called for in these specifications require written approval from the Department.

2.3 - PRODUCT DATA

- A. Manufacturer's printed directions and manufacturer's standard specifications showing all dimensions, cuts, finishes, etc., as well as catalog cuts and ratings of all material will be required and shall be submitted in advance prior to application and/or installation.

2.4 - TESTS

- A. Submit required reports listing items tested, tests conducted, and results obtained as specified.

2.5 - CERTIFICATIONS

- A. Submit required certifications in written form identifying authorized representative, manufacturer, systems designer, and other required data as specified.

2.6 - WARRANTIES

- A. Refer to Specifications for required warranties. Copies of proposed warranties specified for products shall accompany the designated submittal of that product.

2.7 - OPERATION AND MAINTENANCE MANUALS

- A. Manual Format (Use 3-ring binder):
 - 1. Title page with the following information for each system covered:
 - a. Project Title and Contract Number (in capital letters)
 - b. Name of Company
 - c. Name of the individual to be called
 - d. Normal telephone numbers
 - e. Contractor's account number for project
 - 2. Index listing all sections of the Manual.
 - 3. Copies of all warranties for equipment or materials furnished in contract. (Index tabbed)
 - 4. Complete system circuit diagrams, block diagrams, copies of all approved shop drawings, which shall clearly illustrate how all the components relate and how they are interconnected and a point wiring diagram.
 - 5. Reports, testing analysis.
 - 6. Operating instructions and maintenance instructions for all equipment and finish materials furnished.
 - 7. All approved, shop drawings, descriptive data, and any certifications.

2.8 - SUBMITTALS LIST

- A. Abbreviations
 - 1. Mfr - for Manufacturer
 - 2. Prod - for Producer or Supplier
 - 3. SHDR - for Shop Drawings
 - 4. DeDa - for Descriptive Data or Catalog Cuts
 - 5. Samp - for Samples
 - 6. Cert - for Certification
 - 7. Tests - required Test Reports
 - 8. Warr – for Warranties

**SGL #050 Crew Headquarters Building
Contract No. PGC-050-24-01**

GENERAL CONSTRUCTION								
DESCRIPTION OF ITEMS TO BE SUBMITTED	MF R	PRO D	SHD R	DeDa	SAMP	CER T	TEST S	WAR R
CONCRETE	X	X		X			X	
WOOD POLE BUILDING FRAMING & ENGINEERED LUMBER	X	X		X			X	
WOOD ROOF TRUSSES	X	X	X	X		X		
EXPOSED FASTENER METAL ROOFING & SIDING SYSTEMS	X	X		X	X	X		X
SNOW GUARDS	X	X		X				
NEW SEAMLESS ALUMINUM GUTTERS & DOWNSPOUTING	X	X		X				
NEW ALUMINUM SOFFIT, FASCIA & TRIMS	X	X		X				
BATT INSULATION	X	X		X				
RIGID FOUNDATION INSULATION	X	X		X				
STEEL DOORS, FRAMES & HARDWARE	X	X		X				X
12', 14', & 16' WIDE O.H. DOORS, MAN. OPERATORS & HARDWARE	X	X		X				
WINDOWS	X	X		X				
ARCHIECTURAL CASE WORK & COUNTERTOPS	X	X	X	X				
FIBERGLASS REINF. PLASTIC (FRP) WALL PANEL SYSTEM	X	X		X				
MR DRYWALL SYSTEM	X	X		X				
SEALANTS	X	X		X			X	
SEPTIC HOLDING TANK	X	X		X				
SEPTIC TANK ALARM	X	X		X				
PROJECT SCHEDULE				X				
MECHANICAL CONSTRUCTION								
DESCRIPTION OF ITEMS TO BE SUBMITTED	MF R	PRO D	SHD R	DeDa	SAMP	CER T	TEST S	WAR R
HEAT PUMP & AIR HANDLER	X	X		X				X
INSULATED DUCTORK	X	X	X	X				

**SGL #050 Crew Headquarters Building
Contract No. PGC-050-24-01**

THERMOSTAT/CONTROLS	X	X		X				
AIR REGISTERS AND DAMAPERS	X	X		X				
LP GAS FIRED UNIT HEATER W/DIRECT VENT	X	X		X				X
PROJECT SCHEDULE				X				
PLUMBING CONSTRUCTION								
DESCRIPTION OF ITEMS TO BE SUBMITTED	MF R	PRO D	SHD R	DeDa	SAMP	CER T	TEST S	WAR R
ADA COMPLIANT WATER CLOSET	X	X		X				
WALL HUNG LAVAVTORY	X	X		X				
SHOWER COMPARTMENT	X	X		X				
COUNTERTOP SET IN SINK BASIN	X	X		X				
UTILTIY SINK	X	X		X				
LAVAVTORY & SINK FAUCETS	X	X		X				
HOT WATER HEATER	X	X		X				
POLYCAST PRE-SLOPED TRENCH DRAIN SYSTEM	X	X		X				
4" FLOOR DRAIN	X	X		X				
CLOTHES WASHER WATER VALVE CABINET	X	X		X				
DOMESTIC WATER SUPPLY PIPING	X	X		X				
PIPING INSUALTION	X	X		X				
SANITARY SEWER PIPING								
HOSE BIB	X	X		X				
PROJECT SCHEDULE				X				
BATH ACCESSORIES	X	X		X				
ELECTRICAL CONSTRUCTION								
DESCRIPTION OF ITEMS TO BE SUBMITTED	MF R	PRO D	SHD R	DeDa	SAMP	CER T	TEST S	WAR R
BATTERY BACK UP EMERGENCY EXIT	X	X		X				

**SGL #050 Crew Headquarters Building
Contract No. PGC-050-24-01**

SINAGE w/ EXIT LIGHTING								
LIGHTING FIXTURES & CONTROLS	X	X		X				
WIRING DEVICES AND DUPLEX RECEPTACLES	X	X		X				
ELECTRICAL POWER CONDUCTORS & CONDUIT	X	X		X				
GROUNDING AND BONDING ELECTRICAL SYSTEMS	X	X		X				
NEW SERVICE, METER BASE, PANELBOARD	X	X		X				
PROJECT SCHEDULE				X				

TECHNICAL SPECIFICATION SECTION No. 3 - EROSION AND SEDIMENTATION CONTROL

3.1 -SCOPE

This work is implementing the erosion and sedimentation control measures to protect the surrounding environment. Compliance is required with Chapter 102 of the Department of Environmental Protection's regulations is also required.

3.2 – PROCEDURE

The Contractor shall install a 12-inch diameter silt sock around the building site and at the approximate topsoil stockpile location as indicated on the Site Plan drawing. The silt sock shall be anchored with 1" x 1" x 3' wood posts on 8-foot centers. The end of the silt sock shall be extended uphill so that water cannot flow around the barrier.

The Contractor shall install a 24-inch diameter silt sock around the proposed location for concrete washout area as indicated on the Site Plan drawing. The silt sock shall be anchored with 2" x 2" x 3' wood posts on 5-foot centers. The end of the silt sock shall be extended uphill and overlapped 4' minimum so that water cannot flow around the barrier. General Contractor to remove silt sock washout area including all remnant concrete waste material and remediate existing grade as required, upon the completion of all concrete work.

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 because of act or neglect of the Contractor.

The Contractor may, with the approval of the Game Commission, perform temporary seeding operations to maintain finished graded areas until the optimum time for performing permanent seeding. Areas that will be surfaced by stone to serve as parking areas of driveways do not need to be seeded.

Periodically remove accumulated sediments from control measures and dispose of in suitable work areas. Remove all temporary erosion and sediment pollution control measures upon completion of construction, unless otherwise directed by the Game Commission.

3.3 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for the installation of soil erosion and sediment controls, including temporary seeding as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 4 - EXCAVATION

4.1- SCOPE

This work involves the drilling, hauling, and disposal of all materials encountered for construction of the building pole foundations, installation of drainage pipes, water lines and other utilities, as indicated on the Drawings, or designated by the Game Commission.

4.2 - PROCEDURE

- A. **General** - Follow all guidelines set forth in the Construction Industry Standards, OSHA 2207, of the Occupational Safety and Health Administration, U.S. Department of Labor. Protect the work, adjacent buildings, and property.

The Contractor is required to contact the PA One Call System at 8-1-1 or 1-800-242-1776 (outside PA) prior to excavation operations at the site.

During excavation operations, keep the top surface graded for drainage. Do not over-excavate because unauthorized excavation and replacement of materials in the over-excavated areas will not be measured and paid for. Replace over-excavated work with concrete, gravel, earth or other materials designated by, and at no additional cost to the Game Commission.

- B. **Excavation** - Remove all materials to the limits shown on the Drawings or as necessary to construct the pole foundations for the new building, installation of utility lines, new gravel parking area and roadway.
- C. **Disposal** – Suitable excavated materials will be used for backfill of drainage pipes, utility lines and building pole foundations. The excavated materials will also be used to establish the finished grade around the new building. Any remaining excavated materials after final backfilling and grading is completed shall be relocated per the direction of the PGC, on site and stockpiled for future use by the PGC. The Contractor will not be required to transport extra material off the site.

4.3 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all excavation of soils to the required depths for the construction of new building foundations, concrete aprons and entry slabs, and utility trenches as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION NO. 5 – FOREIGN BORROW EXCAVATION

5.1 - SCOPE

This work consists of placing foreign borrow excavation for building site pad preparation.

5.2 - MATERIALS

Secure materials necessary for building pad preparation from approved offsite location. Materials shall be free from trash, roots, brush, frozen and other objectionable materials. The material can contain stones provided that the stones are smaller than 6-inches and are incorporated in the embankments under at least 12-inches of cover.

5.3 - PROCEDURE

Place foreign borrow material in the dry. Place material in layers not exceeding four (4) inches in depth and compact each layer with vibratory compactors. Where working clearances permit, backfill may be placed in layers not exceeding eight (8) inches in depth, and compacted with a roller or tracked equipment. Do not drop backfill materials, but scatter and bring up evenly. Add water or dry the backfill materials as necessary to attain as close to the optimum moisture content as possible during compaction. No free water shall drain off and adversely affect the underlying or adjacent materials. Acceptable compaction will be determined based on non-movement of the material under the compaction equipment. If the density and/or moisture content of the backfill is not satisfactory, replace and/or recompact the materials to the satisfaction of, and at no additional cost to the Game Commission.

Benchmark elevation for foreign borrow material to be established at 6” below existing roadway grade at the northeast corner of the proposed building. Taper foreign borrow material outside of the building pad footprint to create smooth transition between building pad and existing ground to allow safe passage of vehicles and other equipment.

5.4 - MEASUREMENT AND PAYMENT

Unit of Measurement: **Cubic Yard – Compacted**

TECHNICAL SPECIFICATION SECTION No. 6 - COMPACTED BACKFILL

6.1 – SCOPE

This work is backfilling around the completed pole foundations and installed utility lines with suitable materials obtained from the required excavation as shown on the Drawings, or as directed by the Game Commission.

6.2 - MATERIALS

Secure backfill materials from the required excavation. The onsite soil may contain cobbles and boulders which are not suitable for backfill around pipes or concrete foundations. Screening of the excavated soils may be necessary to separate objectionable stones and other debris from the backfill material. Materials shall be free from roots, brush, frozen and other objectionable materials, and stones having any dimension greater than three (3) inches. The Game Commission will decide the material's suitability for use as backfill during excavation operations.

6.3 - PROCEDURE

Conduct backfill operations so that the building foundations and utility lines are not damaged. At your own expense, and to the satisfaction of the Game Commission, repair or replace any structure damaged by your operations.

Place backfill in the dry. Place material in layers not exceeding four (4) inches in depth and compact each layer with vibratory compactors. Where working clearances permit, backfill may be placed in layers not exceeding eight (8) inches in depth, and compacted with a roller. Do not drop backfill materials, but scatter and bring up evenly. Add water or dry the backfill materials as necessary to attain as close to the optimum moisture content as possible during compaction. No free water shall drain off and adversely affect the underlying or adjacent materials. Acceptable compaction will be determined on the basis of non-movement of the material under the compaction equipment. If the density and/or moisture content of the backfill is not satisfactory, replace and/or re-compact the materials to the satisfaction of, and at no additional cost to the Game Commission.

6.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for performing all compacted backfilling to the required depths for the construction of new building foundations, and utility trenches as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No.7- AGGREGATE

7.1 - SCOPE

This work is providing a compacted building pad, concrete aprons, and backfilling around the building with #2B coarse aggregate as shown on the Drawings. Work includes stone around the perimeter around the building and the parking areas required to eliminate any low or uneven spots. Related work includes clean #2A aggregate for parking area surface, 3A Aggregate for subbase for parking area, and AASHTO #57 and #10 aggregate for backfill around drainage pipes, water lines, electric conduits, etc.

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 the parking areas shall be Type C, #2A modified aggregate and #3A modified aggregate, as specified in Section 703.2 of Pub. 408.

Aggregate used for subbase under concrete slab and concrete walkways and backfilling around the foundation drainpipes shall be 2B AASHTO #57 aggregate as specified in Section 703.2 of Pub. 408.

AASHTO #10 stone shall also be used to backfill around installed water lines, electric conduit and drainage pipes.

Obtain aggregates from a source listed in Bulletin 14.

7.4 - PROCEDURE

Place aggregates and stone in the dry, and not on frozen ground for concrete slab foundations. Conduct aggregate placement operations in such a way that the permanent structures are not damaged.

At concrete slab foundations, place stone in loose layers not exceeding 4 inches in depth and compact each layer with mechanical tampers or other approved means. If working clearances permit, place stone in loose layers not exceeding 8 inches in depth and compact each layer with rollers, tracked vehicles or other approved equipment. After compacting to the required thickness shown on the Drawings, accurately shape the foundation bed by a template to provide uniform contact for concrete placement.

Trenching and backfill around the drainpipes and utility lines are the responsibility of the electrical and plumbing contractor's work. Electrical and plumbing trades own their own trenching and backfill.

7.5 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for providing all aggregates and the placement and compacting of aggregates to the required depths for the construction of new building foundations, concrete aprons and slabs and utility trenches as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work. Aggregate used for replacing caved-in-material, and material excavated beyond the established payment lines will not be measured and paid for.

Unit of Measurement: **Tons**, measured by the weight slips from stone supplier, as applicable for the three types of aggregate used for the project.

TECHNICAL SPECIFICATION SECTION No.8 – VAPOR BARRIER

8.1 – SCOPE

This work is providing and installing a polyethylene vapor barrier under the concrete floor slab for the new building as shown on the Drawings.

8.2 – MATERIALS

The vapor barrier shall be a polyethylene sheet conforming to ASTM E 1745 and ASTM D4397 with a minimum thickness of 6 mils and a perm rating of <0.03 perms. No C&A film is to be used. Tape and seal all joints with approved pressure-sensitive or waterproof tape. Submit a catalog cut or other information for the vapor barrier from the manufacturer to the PGC for review and approval before ordering any materials.

8.3 - PROCEDURE

Prepare the #2B aggregate subbase for the concrete floor slab according to the requirements of Section 6 of these Technical Specifications. Smooth the top surface of the stone subbase to lessen the chance of puncturing the vapor barrier. Install rigid foam insulation panels along the exterior edges of the floor slab. Place the vapor barrier on top of the stone subbase and under the insulation panels. Smooth and stretch the vapor barrier so there are no folds or creases. Make sure that the vapor barrier extends to the splash boards along all four sides of the concrete floor slab.

Cut the vapor barrier around the trench drains and vertical pipe. Use pressure-sensitive or waterproof tape along seams in the vapor barrier and around trench drains. Repair or replace any damaged or punctured sections in the vapor barrier.

8.4 – MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for the installation of vapor barriers including vapor barrier tapes as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work. No separate measurement or payment for vapor barrier used to repair cuts or holes.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 9 – CONCRETE

9.1 - SCOPE

This work is furnishing all materials, plant, and equipment, and performing all labor for the manufacture, transporting, placing, finishing, patching, curing, and testing of concrete to be placed under the Contract. Concrete is to be used for the continuous footings, post footings, and floor slabs of the new building. Exterior concrete sidewalks and slabs are to be constructed for the front and side building entries and for condensing units mounting pads. The Contractor shall protect all concrete against damage until final inspection and acceptance by the Game Commission.

Except as herein qualified, matters pertaining to measuring, placing and testing of concrete; materials used; construction of formwork; concrete finishing; curing of concrete; detailing, fabricating and placing of reinforcing and accessories shall be governed by the following codes and regulations:

- A. Building Code Requirements for Reinforced Concrete (ACI 318)
- B. Current "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315)
- C. Current "Recommended Practice for Measuring, Mixing, and Placing Concrete" (ACI 304)
- D. All matters in connection with concrete work, not otherwise specified, shall conform to the applicable sections of the Pennsylvania Department of Transportation Specification Publication 408.

9.2 - TESTING AND CERTIFICATIONS

Obtain all concrete from a PennDOT approved source. Submit a concrete mix design for each supplier to the Game Commission for approval 3 days prior to placing concrete.

One set of four (4) standard test cylinders for each day's pour shall be taken and forwarded to an approved laboratory for testing. Two (2) cylinders shall be tested at the age of seven (7) days and two (2) cylinders tested at the age of twenty-eight (28) days. Three (3) copies of tabulated results of such tests shall be forwarded to the Game Commission for approval and distribution. All costs in connection with tests of concrete shall be borne by the Contractor.

Provide product information, and/or original certifications for the following items: cement, admixtures, aggregates, preformed expansion joint filler, epoxy bonding compound, joint seal material, and curing compound.

9.3 - COMPOSITION

Concrete shall be composed of Portland cement, water, fine and coarse aggregates and approved admixtures, all well mixed and brought to the proper consistency.

- A. Concrete shall be Class A and shall develop a minimum compressive strength of 3,300 psi in twenty-eight (28) days. Typical for interior slabs receiving a troweled finish.
- B. Class AA and shall develop a minimum compressive strength of 3,500 psi in twenty-eight (28) days. Typical for exterior slabs.
- C. Concrete shall be obtained from a batch plant currently approved by the Pennsylvania Department of Transportation (PennDOT) or the Department.
- D. Ready-mixed concrete shall be mixed and delivered in accordance with ASTM Designation C94.

9.4 - MATERIALS

All materials shall be obtained from sources listed in PennDOT Bulletin 14 or PennDOT Bulletin 15 as applicable.

- A. **Cement** - Cement shall be one of the following types:
 - a. Normal Strength Air-Entraining Portland Cement, Type IA or Type IIA, conforming to ASTM Designation C150. Synthetic fiber reinforcing should be added to the cement to meet ASTM C1609/C1609M. The fiber reinforcing shall meet ASTM C 1116/C 1116M for macro-chopped strands.
 - b. Normal Strength Air-Entraining Portland Blast Furnace Slag Cement, Type IS-A, conforming to ASTM Designation C595. Synthetic fiber reinforcing should be added to the cement to meet ASTM C1609/C1609M. The fiber reinforcing shall meet ASTM C 1116/C 1116M for macro-chopped strands.
- B. **Admixtures** - Approved types of admixtures meeting ASTM Designation C260, increasing the plasticity and workability of the concrete may be used.
- C. **Water** - Water for concrete shall be clean and free from injurious amounts of oil, acid, alkali, organic matter, or other deleterious substances.
- D. **Aggregates** - Aggregates for concrete of normal weight shall conform to "Specifications for Concrete Aggregates" (ASTM C33).

- E. **Preformed Expansion Joint Filler** - Preformed expansion joint filler shall be of the size shown on the Drawings, shall be gray in color, and shall conform with the requirements of AASHTO M153, Type 1, sponge rubber. Joint filler shall be solid sponge rubber, and no reprocessed material will be accepted. Joint filler made of numerous pieces of sponge rubber which adhere to each other will not be acceptable. The material shall be stored as recommended by the manufacturer.

- F. **Joint Seal Material** - The joint seal material shall conform with the requirements of ASTM C290 such as Sikaflex-2c or Sikadur 51 as manufactured by the Sika Corporation, Lyndhurst, New Jersey or an approved equal. The material shall be stored as recommended by the manufacturer.

- G. **Curing Compound** - The curing compound shall be clear or translucent containing a red fugitive dye conforming to the requirements of AASHTO M148, Type 1-D, and must not affect water in any respect to injure fish life or impair or be detrimental to water for human consumption. The curing compound shall be stored as recommended by the manufacturer.

9.5 – PREPARATION OF AREAS TO RECEIVE CONCRETE

For pole footings, excavate to the proper depth and grade. Remove any organic material from the areas to receive concrete.

For concrete slabs, place and compact #2B coarse aggregate as shown on the Drawings. Place rigid foam insulation panels and vapor barrier. Install the splash boards on the outside edges of the building to act as forms.

9.6 - JOINTS AND EMBEDDED ITEMS

Place preformed expansion joint filler around the poles and in the expansion joint as shown on the Drawings. Place trench drains, drainage pipes and utility sweeps. All joint materials and embedded items shall be clean and free of dust, grit, mud, oil or grease, and shall be held firmly in place to avoid displacement during concreting.

9.7 - FORMWORK

Forms shall conform to the shapes, lines, grades, and dimensions of the concrete as called for on the Drawings. They shall be sufficiently tight to prevent leakage of mortar and shall be properly braced or tied together to maintain the desired position and shape during and after placing concrete. Forms shall be removed in such a manner as to assure the complete safety of the structure.

9.8 - CONCRETE PLACEMENT

- A. **Depositing** - Concrete shall be deposited in the presence of a representative of the Game Commission. In all cases, concrete shall be deposited as nearly as practicable in its final position and not allowed to flow in a manner to permit or cause segregation and loss of slump. Once concreting is started, the operation shall be carried on continuously until the placing of the panel or section is completed. Concrete shall be placed in continuous, approximately horizontal layers, the depths of which generally shall not exceed twenty (20) inches.

All conveying equipment shall be of such size and design as to insure a practically continuous flow of concrete at the forms. Free falls of more than four (4) feet are not permitted.

Any concrete that has been contaminated by foreign matter or which has become so stiff that proper placing can not be assured, shall be wasted.

If unfavorable weather conditions exist, the Game Commission may order the work stopped, either before concreting has started or after it is in progress, until a suitable formwork or covering is set up on the site to protect fresh concrete from rain, hail, snow, or other unfavorable conditions.

- B. **Consolidation** - Concrete shall be consolidated by vibration so that concrete is thoroughly worked around the reinforcement, around embedded items, and into corner of forms, eliminating all air or stone pockets which may cause honey-combing, pitting, or planes of weakness. Internal vibrators shall be of the largest size and the most powerful that can be properly used in the work, as described in Table 5.1.4 of ACI 309, and they shall be operated by competent workers. Vibrators shall not be used to transport concrete within the forms and shall not be attached to the reinforcing bars to consolidate concrete. Vibrators shall be inserted and withdrawn at points approximately eighteen (18) inches apart. At each insertion, the duration shall generally be between five (5) and fifteen (15) seconds, sufficient to consolidate concrete, but not sufficient to cause segregation. A spare vibrator shall be kept at the job site during all concrete placing operations. Before continuing the placement operations, any displacement of reinforcement, forms, or embedded items because of placement or vibration shall be corrected. Concrete which has been segregated by over vibration shall be removed and discarded. Proper care shall be used to ensure that the vibrators does not penetrate or disturb layers which have partially hardened. If directed by the Game Commission, exposed form surfaces shall be spaded in addition to vibration to minimize bubbles in concrete surface.

9.9 - REMOVAL OF FORMS AND REPAIR OF CONCRETE

- A. **Removal of Forms** - Forms shall be removed as soon as practicable to avoid delay in curing and to enable earliest repair of surface imperfections. The time of form removal shall be based on the effect on the concrete; there shall be no damage to the

concrete, due either to the removal of support or to the form stripping operation. Forms shall be carefully removed to avoid injury to the concrete, and satisfactorily repair any concrete so damaged. Forms shall not be removed until twenty-four (24) hours has elapsed from concrete placement except when specifically authorized by the Game Commission. During cold weather, forms shall be kept in place for five (5) days, unless otherwise authorized by the Game Commission. The Contractor shall accept full responsibility for any damage to concrete incurred by stripping too early.

- B. Repair of Concrete** - Repair of concrete shall be performed by skilled workers and in the presence of a representative of the Game Commission. Repairs shall be completed within 48 hours after removal of forms. When directed by the Game Commission, the Contractor shall repair or remove and replace any concrete that does not meet the requirements of any portion of this Technical Specification. Any concrete which is not satisfactorily repaired shall be removed and replaced.

9.10 - TOLERANCES

The concrete surfaces and reinforcing steel shall conform to the tolerance limits listed in the following tables. Permissible surface irregularities for the various classes of concrete surface finish as specified in "Finishing Concrete" section of these specifications are defined as "Finishes," and are to be distinguished from tolerances as described herein. The Contractor shall establish and maintain, in an undisturbed condition and until final completion and acceptance of the Project, sufficient control points and benchmarks to be used for reference purposes to check tolerances. Concrete work that exceeds the tolerance limits specified shall be satisfactorily remedied or removed and replaced by and at the expense of the Contractor.

CONCRETE TOLERANCES		
Variation from established lines	Change in 10 feet Maximum permissible	1/4 inch 1 inch
Variation from the plumb in lines and surfaces	In 10 feet In 20 feet In 40 feet	1/4 inch 3/8 inch 3/4 inch
Variation from the level or from the grades indicated on the Drawings for top of walls	In 10 feet In 20 feet In 40 feet	1/4 inch 3/8 inch 3/4 inch
Variation in thickness of slabs and walls	Minus Plus (Walls) Plus (Slabs)	1/4 inch 1/2 inch No limit
Footings:		

(1) Variation of dimensions in Plan	Minus Plus	1/2 inch 2 inches
(2) Misplacement or Eccentricity	Not more than	2 inches
(3) Reduction in thickness	Minus	5% of thickness

NOTE: No abrupt changes in line, grade or dimension will be permitted for any of the conditions listed above. Variations in thickness will be permitted only as "spot" conditions and shall not extend over large areas.

Reinforcement steel shall be fabricated in accordance with the fabricating tolerances given in ACI 315 and shall be placed conforming to the tolerance limits listed in the following table:

REINFORCEMENT STEEL TOLERANCES		
Variation for Protective Covering	With 2-inch cover With 3-inch cover	1/4 inch 1/2 inch
Variation from indicated spacing for individual bar		1/2 inch
Variation from lap	Minus Plus	0 inch No limit

9.11 - FINISHING CONCRETE

A. **General** - Allowable deviations from plumb or level and from alignment, grades, and dimensions shown on the Drawings and as specified in Section 7.10 are defined as "tolerances," and are to be distinguished from finishes as described herein. Finishing shall be completed immediately after removing the forms.

B. **Formed Surfaces** - All formed concrete surfaces shall be treated as described below by a skilled concrete finisher.

Holes shall be filled, and defective areas repaired immediately after form removal. Fins and irregularities shall be removed or corrected. There shall be no conspicuous offsets, bulges or misalignment of concrete.

C. **Unformed Surfaces** - All unformed surfaces shall be finished in accordance with the following requirements by a skilled concrete finisher:

Immediately after vibration is completed, the surface shall be leveled and screeded sufficiently to produce an even, uniform texture.

Floating shall be done by hand or power-driven equipment. Floating shall not start until some stiffening has taken place in the surface concrete and the moisture film or "shine" has disappeared. The floating should work the concrete no more than necessary to produce a surface that is uniform in texture and free of screed marks. Any necessary cutting or filling of surface to prevent irregularities should be done during the floating operations. Joints and edges shall be finished with edging tools at this time.

After floating is completed, apply a light steel trowel finish to the top surface of the floor slab concrete. Light surface pitting and light trowel marks are not objectionable. For the doorway ramps and front apron slab; apply a light broom finish for traction.

9.12 - CURING AND PROTECTION

- A. **General** - After finishing operations are completed, the concrete shall be membrane cured. A minimum of seven (7) consecutive days of curing and protection shall be required. The following definitions of air temperature and curing temperature are specified below, as they will be mentioned frequently in this section:

Air Temperature - The measured temperature in the shade, not in the direct rays of the sun, and away from artificial heat.

Curing Temperature - The temperature of the air immediately adjacent to concrete. Where concrete is not covered by forms or other protective coverings, or where protective coverings are considered inadequate, the curing temperature will be considered as being not more than the air temperature. During cold weather, the curing temperature is the temperature inside the forms, protective coverings or housings. The curing temperature for the first 24-hour period after placing concrete will be considered as not more than the temperature of the concrete at the time of its placement in the forms.

- B. **Insulation** - High-low thermometers shall be provided and an accurate daily record of air and curing temperatures maintained during cold weather. These temperatures shall be submitted daily to the Game Commission. Curing temperatures shall be taken on the surface of the concrete and at representative locations on structures.

Adequate care shall be provided so that at any time during the curing period the curing temperature does not fall below 50°F. Any day during which the curing temperature drops below 50°F but remains above 35°F, will not be considered as day as a curing day and the duration of the curing period shall be extended accordingly. If at any time during the curing period, the curing temperature falls below 35°F, the contractor shall core and test the concrete at his own expense. The concrete shall be considered satisfactory and acceptable if the strength and durability requirements of Section 7.3.1 are met.

In moderate weather, when the forecasted air temperature is expected to be between 35°F and 50°F, in addition to membrane curing, insulated blankets shall be furnished and placed over concrete and forms.

During cold weather, when the forecasted air temperature is expected to be 35°F or lower, cure shall be by the methods prescribed for curing in moderate weather, and in addition, furnish and install canvas covered frames or some type of approved housing that will completely enclose the fresh concrete and forms. Also, sufficient approved heating apparatus (preferably steam equipment) shall be furnished to maintain the temperature of air surrounding the fresh concrete between 50°F and 80°F, for seven (7) days. Concrete covers shall be kept moist during the curing period. After seven (7) days, the temperature shall gradually be lowered within the housing to the outside temperature over a period of 72 hours. When heating apparatus is required, special care shall be provided to prevent the concrete from drying. Combustion heaters shall not be used during the first 24 hours unless adequate precautions are taken to prevent exposure of the concrete to exhaust gases which contain carbon dioxide. Arrangements shall be made for heating, covering, insulating, or housing the concrete work, in advance of placement, and they shall be adequate to maintain the required temperature without injury to the concrete due to concentration of heat.

Changes in air temperature immediately adjacent to the concrete during and immediately following the curing period shall be kept as uniform as possible, not exceeding five (5) degrees Fahrenheit in any one (1) hour or 50°F in any 24-hour period.

- C. **Membrane Curing** - Finishing of the concrete surfaces shall be completed prior to the application of curing compound.

Curing compound shall be applied in two (2) coats, each coat covering 300 square feet of concrete surface per gallon. A pressure tank type spraying equipment shall be used, which shall provide continuous agitation of the compound during coating operations. Do not use ordinary orchard-type hand sprays. In order to insure thorough and complete coverage of the concrete surfaces, the first coat shall be applied by moving the spray gun back and forth in one direction, and the second coat immediately thereafter by moving the spray gun at right angles to the direction of the first coat.

The first coat shall be applied immediately after finishing operations are completed. The second coat shall be applied immediately after the first coat has set.

- D. **Protection** - All concrete shall be protected against injury until final inspection and acceptance by the Game Commission.

During the curing period, the concrete shall be protected from damaging mechanical disturbances, such as load stresses, heavy shock, and excessive vibration. All finished concrete surfaces shall be protected from damage by construction equipment,

materials or methods, by application of curing procedures, and by rain or running water.

Until final inspection and acceptance by the Game Commission, the Contractor shall repair, or remove and replace any damaged concrete at no additional cost to the Game Commission.

9.13 – SUBMITTALS

Submit a manufacturer's concrete mix design for each type of concrete used for this project to the PGC for review and approval before ordering any materials.

9.14 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all cast in place concrete including furnishing of concrete, forms, all labor, and equipment for mixing, placing, curing, finishing, repairing and forming and all laboratory and field tests as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Cubic Yards**, measured by the average end area method or by the three-dimensional volume method, as applicable.

TECHNICAL SPECIFICATION SECTION No. 10 – FRAMING LUMBER AND CARPENTRY

10.1 - SCOPE

This work is providing and installing the lumber and fasteners necessary to frame the building.

10.2 - MATERIALS

- A. **Dimension Lumber** – The lumber used to frame the building should be of the sizes, spacing and arrangement shown on the Drawings. The lumber should conform to the following requirements.
 - a. Grading Agency – Southern Pine Inspection Bureau, Inc. (SPIB)
 - b. Nominal sizes – as indicated on the Drawings, S4S.
 - c. Moisture content – S-dry or MC19
 - d. Structural Grade – No. 2 or better

- B. **Engineered Lumber** – The engineered lumber including laminated veneer wood lumber (LVL), laminated wood strand lumber, and engineered lumber connectors should be of the sizes, spacing and arrangement shown on the Drawings.

- C. **Treated Lumber** – Same as dimension lumber plus treatment by MCA (waterborne preservative), 0.4 pcf retention in conformance with the American Wood Preservers Association (AWPA). Use category UC2 for interior construction not in contact with the ground, use category UC3b for exterior construction not in contact with the ground and use category UC4a for items in contact with the ground.

- D. **Plywood** – Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D5456 and manufactured with an exterior-type adhesive complying with ASTM D2559. The plywood shall have at least 2,600 psi extreme fiber stress in bending. Plywood for the heated/unheated wall to be good one side.

- E. **Wood Posts** – The wood posts to be glue laminated columns manufactured from #1 Southern Yellow Pine with the lower portions pressure treated to 0.60 pcf with CCA in compliance with AWPA C28. The pressure treated portion of the wood posts shall extend at least one foot above the finished concrete floor elevation.

- F. **Fasteners** – Of the sizes and type suited for the applications. Where rough carpentry is exposed to weather, in ground contact, in pressure-treated lumber, or in the area of high relative high humidity, provide fasteners of Type 304 stainless steel.
 - a. Nails, Brads and Staples: ASTM F1667

- b. Power-Driven Fasteners: NES NER-272
- c. Wood Screws: ASME B18.6.1
- d. Lag Bolts: ASME B18.2.1(ASME B18.2.3.8M)
- e. Bolts: Steel bolts complying with ASTM A307, Grade A (ASTM F568M, Property Class 4.6); with ASTM A563 hex nuts /washers where indicated.
- f. Expansion Anchors: Anchor bolt and sleeve assembly made with carbon-steel components, zinc plated to comply with ASTM B633, Class FE/Zn 5.

10.3 - PROCEDURE

Construct the building frame according to the dimensions and layout shown on the Drawings. Excavate holes for the wood posts and place concrete in the bottom of the holes as shown on the Drawings to prepare for post installation. Install truss seats, girts and corner braces as shown. Provide extra framing lumber around doors and windows to provide the support necessary to install these items. All exterior wall sections that will be finished with OSB board and FRP panels are to be framed with 2' x 6' studs on 16-inch centers. Base plates for these walls must be pressure treated. Provide temporary bracing for the building frame to maintain the integrity of the building as construction progresses.

Frame interior wall sections with 2"x 4" and 2"x 6" studs were shown on 16-inch centers to receive the OSB board and FRP panels. The base plates for interior walls must be pressure treated. Drill holes in the wall base plates (treated) for expansion anchors or use power actuated gun to secure completed wall panels to the concrete floor.

After construction is complete, remove all temporary bracing and waste lumber from the site.

10.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all framing lumber and carpentry including furnishing and erection of wood framing members, wood framing connectors and clips, anchors, fasteners as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 11 – ROOF TRUSSES

11.1 - SCOPE

This work is providing and installing the wooden roof trusses for the new building as shown on the Drawings.

11.2 – TRUSS DESIGN

- A. General Dimensions and Features** – The trusses have a 4:12 pitch and 2-foot overhangs @ the eaves and 1-foot on the gable ends. The trusses shall have a 40-foot span and are spaced on 4-foot centers. *Trusses must include an 8-inch energy heel in the truss design.*
- B. Design Loading** – The roof trusses must have a roof load rating of 42.5 lbs/ SF ground snow load (snow load factor of 0.7) and a (*Risk Category II*) wind load rating of 25 lbs/SF and wind speed rating of 115 MPH minimum.
- C. Design Drawings and Calculations** – The design drawings and calculations for the trusses must be sealed and certified by a licensed professional engineer (valid Pennsylvania license). The drawings must be submitted for review by the PGC. The truss design shall conform with the applicable provisions of “National Design Specification for Stress-Grade Lumber and Its Fastenings” (National Forest Products Association) and “Design Specifications for Light Metal Plate Connected Wood Trusses” (TPI).

11.3 - PROCEDURE

Conform to the manufacturer’s recommendations for storing, handling, installing and bracing of the trusses. Provide adequate temporary bracing of the trusses during installation.

Provide adequate permanent bracing of the top chords, bottom chords and web members of the trusses according to the manufacturer’s recommendations. Install purlins for the roof panels on the top chord of the trusses. Secure the roof trusses to the building frame with galvanized steel hurricane ties or dimensional blocking.

After construction is complete, *provide all bracing for the roof trusses as required by the truss manufacturer.*

11.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all wood roof trusses including engineering design, manufacture, erection, and bracing as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

**TECHNICAL SPECIFICATION SECTION No. 12 – METAL SIDING AND ROOF
PANELS WITH SNOW GUARDS**

12.1 – SCOPE

This work is providing and installing the metal siding and roof panels w/snow guards on the new building frame and roof trusses as shown on the Drawings. Snow guards may/may not be shown but must be installed in two rows staggered on the front and rear of the building. Colors to be verified before ordering.

12.2 – MATERIALS

- A. Siding and Roof Panels** – The siding and roof panels shall be fabricated from galvanized steel sheet with a minimum coating of 0.90 oz/SF. The roof panels shall be minimum **26-gauge** steel sheet stock capable of supporting the design roof loading. The roof panels shall be full length from ridge to eave. The ridge and eaves shall be fitted with continuous gaskets. The finish color of the roof panels and wainscoting is GREEN. The siding panels shall be minimum **26-gauge** steel stock with the same configuration and finish as the roofing panels except the finish color is STONE/TAN/BEIGE. The heated bay interior panels shall be minimum **28-gauge** and WHITE.
- B. Trim** – Steel sheet stock pre-fabricated into ridge cap, end wall flashing, gable end trim, corners, dew drip caps, door jambs trim, cut edge trim and side wall flashing. The finish color will match the application it is associated with. The window and door jambs are TAN w/J channel to match siding. Fascia and soffit trim shall be GREEN.
- C. Sealants and Fasteners** – Manufacturer’s standard type exterior sealants and gaskets, ring shank nail fasteners w/neoprene washers, galvanized to ASTM A153, finished to match exposed siding. Screw fasteners, cadmium plated self-tapping, hex head with washer and soft neoprene sealing ring finished to match metal roof surface.
- D. Snow Guards** – The snow rail guards are to be “S-5 SnoRail” complete with compatible clamps and color to match roof panels.

12.3 - PROCEDURE

The roofing and siding panels are to be sized to the proper dimensions for installation. Install the roofing and siding panels with the recommended spacing and type of fasteners. The Contractor is responsible for the correct spacing of the purlins and girts to support the roof and siding panels. Siding panels are to be installed with the corrugations running vertically. Cut “custom” panels at the site for gable ends if necessary. The Contractor should shear or use snips to cut siding and roof panels to minimize the potential to damage the protective coatings on the panels.

Install the wainscoting and flashing for the building followed by the siding panels

Install finish trim sections where needed on the siding and roof panels. Make sure all edges and ends are properly sealed with gaskets or sealants.

After construction is complete, remove all waste pieces of roof and siding panels, trim, and fasteners from the site.

12.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for metal panel roofing and siding systems including, flashings, transitions, moldings, snow guards, fasteners, and sealants as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum**. No separate measurement or payment for the snow guards.

TECHNICAL SPECIFICATION SECTION No. 13 – SOFFITS AND FASCIA

13.1 - SCOPE

This work is providing and installing the soffits and fascia at the roof overhangs for the new building as shown on the Drawings.

13.2 – MATERIALS

- A. Soffits** – The soffits shall be preformed and perforated (minimum 29 gauge steel sheet stock) formed to a V-groove section at roof eaves and roof rakes shall have finish color is GREEN.
- B. Fascia** – Fascia shall be preformed, prepainted aluminum alloy (minimum 0.019 inch thick sheet stock) with plain surface and the finish color is GREEN.
- C. Nails** – Aluminum; use prefinished GREEN nails for soffits and fascia.
- D. Trim** – Trim to match the same color as the material being finished.
- E. Sealant** – Silicone, single component, solvent curing, clear in color.

13.3 - PROCEDURE

Install F&J-channel to receive soffit sections in conjunction with siding panel and nail to fascia to secure. Install fascia and trim sections with sealant as needed.

13.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for aluminum soffits and fascia at roof overhangs, including trims, fasteners and sealant as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 14 – GUTTERS AND DOWNSPOUTS

14.1 - SCOPE

This work is providing and installing gutters and downspouts for the new building.

14.2 – MATERIALS

- A. Gutters** – Aluminum with baked on GREEN finish. Gutter shall be seamless for the length of the roof. Gutter shall be standard 6-inch width, .032 gauge minimum.
- B. Downspouts** – Aluminum with baked on GREEN finish and 3-inch by 4-inch cross section.
- C. Fittings, Hangers and Brackets** – Aluminum fittings and brackets as recommended by gutter and downspout manufacturer with hidden hangers at 2'-0" on center maximum.

14.3 - PROCEDURE

Submit a catalog cut or other information for the gutter and downspout from the manufacturer to the PGC for review and approval before ordering any materials.

Install gutters on the roof eaves of the new building. Secure the gutters to the fascia with hidden hangers. Install downspout drop sections and end caps at the ends of the roof eaves as shown on the drawings. Connect downspout sections to the gutters and run the downspout along the edge of the building to the ground level and onto splash blocks or tie into rain water boot and PVC SDR 35 leaders, see drawings. Verify in field to ensure that the water drains away from the building properly. Route the downspouts to prevent any potential discharge from egress areas.

14.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for aluminum rain gutter and downspout system, hangers, fasteners, and sealants as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 15 – INSULATION

15.1 - SCOPE

This work is providing and installing the insulation in the walls and ceiling of the new building and under the edges of the floor slab as shown on the Drawings.

15.2 – MATERIALS

- A. Fiberglass Blankets** - The insulation for the walls and the ceiling (heated spaces) shall be Kraft-faced formaldehyde-free, fiber glass insulation conforming to ASTM C665, Type II (non-reflective faced), Class C, Category 1. Walls and between bottom chord of trusses shall have R-19 insulation. The insulation for the ceiling above the faced insulation (between trusses) shall be R-30, formaldehyde-free, fiberglass insulation conforming to ASTM C665, Type I (unfaced). Insulation can be in batts or rolls.
- B. Rigid Foam Panels** – The insulation panels to be installed under the floor slab, shall be rigid foam (extruded polystyrene) panels conforming to ICC ES 96-24 and ASTM C578. The panels to be installed under the edges of the floor slab shall be 2 inches thick R-10.
- C. Building Envelope Insulation** – The insulation to be installed on the exterior envelope of the building shall be White Prodex Total 5m Plus 48-inch insulation or an approved equal conforming to the following characteristics:
- a. Blanket structure – Closed cell polyethylene foam with reflective reinforced foil facing on exterior side and UV resistant plastic white finish film on inside.
 - b. Nominal thickness – .20” (5mm)
 - c. Perm Rating – Less than 0.09 according to ASTM E9
 - d. Fungi Resistance – No Growth (ASTM C-1338)
 - e. Flame Spread Index – 0 (ASTM E84-10)
 - f. Smoke Developed Index – 10 (ASTM E84-10)
 - g. Insulating Value – R-15.3 (roof) R-10 (wall)
- D. Attic Rafter Vents** – The attic rafter vents shall be extruded pre-formed polystyrene designed to fit between the roof framing members to provide cross ventilation between insulated attic spaces and vented eaves in the heated areas.

15.3 - PROCEDURE

Fiberglass insulation is to be installed in the walls and ceilings of the heated areas only. Store insulation materials indoors before installation. Keep insulation clean and dry. When transporting, cover with a waterproof tarpaulin as necessary.

Install attic rafter vents properly against the underside of the roof deck, between the roof trusses. Install insulation as directed by manufacturer.

Open insulation packages and be careful to avoid cutting the product or facing. Gently push the insulation into the wall and ceiling cavities. Install the insulation so that the Kraft-facing is toward the interior of the building. Secure the flanges of the facing to the studs or roof truss chords. Take care not to stretch the insulation which could cause the material to compress or tear. Space the staples at least six inches from each end of the batt and 12" to 24" apart. Cut insulation as necessary to fit around framing for doors, vents and fans.

Install the R-19 ceiling insulation between the bottom chord of the trusses with the vapor barrier facing down. Install the R-30 unfaced insulation across (perpendicular) the R-19 insulation and truss chords.

Install the building envelope insulation (Prodex) over the outside face of the wood wall girts. Cut all materials neatly around doors and windows. Seal all seams and around doors and windows with a vapor retarder tape. Conform to the manufacturer's recommendations for installation to avoid damage to the material. The building envelope insulation Prodex shall also be installed in the building on top of the roof purlins and below the metal roofing of the building.

Place rigid foam panels under the edges of the floor slab as shown on the drawings. The panels should extend 4-feet in from the perimeter of the building. Install ½-inch thick panels vertically at the splashboards on the edges of the concrete floor along the perimeter of the building.

15.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all building envelope thermal insulation systems including fiberglass batt cavity insulation, vent baffles, rigid foundation insulation, insulation supports, fasteners, and sealants as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 16 – SUSPENDED CEILING SYSTEM

16.1 - SCOPE

This work is to furnish and install acoustical panels and metal suspension system to form a suspended ceiling system in the new building as shown on the Drawings. A suspended ceiling system is to be installed in the office, bathroom, and mechanical room only. The heated shop area is to have a metal panel ceiling.

16.2 – MATERIALS

- A. Acoustical Panels** – The acoustical panels shall have a Class A fire rating and shall be white with a random medium or fine texture (Fissure). Provide a 24 inches x 48 inches x 5/8-inch-thick panel from Armstrong World Industries, or a comparable equal product. The edge detail of the panels is square. The panels must be mold, mildew and bacteria resistant.
- B. Hanger Rods** – Mild steel, zinc coated or protected with rust-inhibitive paint.
- C. Metal Suspension System** – Armstrong World Industries standard 15/16-inch metal suspension system or comparable product from USG Interiors, Inc. or Chicago Metallic Corporation. The finish color of the metal suspension system is white.
- D. Metal Edge Moldings and Trim** – Armstrong World Industries or comparable product by USG Interiors, inc. or Chicago Metallic Corporation.

16.3 - PROCEDURE

Examine the substrates, areas and conditions to which the drop ceiling components will attach or abut to see if there are problems with installing the drop ceiling. Correct those problems before installing the drop ceiling components. Examine acoustical panels before installation. Reject acoustical tiles that are wet, moisture damaged or mold damaged.

Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders and comply with the layout shown on the Drawings.

Install acoustical panels in compliance ASTM C636 and according to the manufacturer's recommendations.

Install hangers where required plumb and free from contact of other objects within the ceiling plenum. Install supplemental suspension members or hangers in the form of trapezes or equivalent devices. Secure wire hangers to ceiling suspension members and

to supports above. Connect hangers directly to structures or to inserts, eye screws, or other devices that are secure and appropriate for each substrate and that will not deteriorate or otherwise fail due to age, corrosion or elevated temperatures. Space hangers not more than 48 inches on center along each member supported directly from hangers and not more than 8 inches from the ends of each member. Install edge moldings and trim of type indicated at the perimeter of the drop ceiling areas and where necessary to conceal edges of the acoustical panels. Attach moldings to substrates at intervals not more than 16 inches on center and not more than 3 inches from the ends. Level the ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely. Do not expose fasteners, including pop rivets on moldings or trim.

Install suspension system runners so that they are securely interlocked with one another. Remove and replace dented, bent or kinked members.

Clean exposed surfaces of acoustical panels, trim and edge moldings. Comply with the manufacturer's recommendations for cleaning and touchup of minor finish damage. Remove and replace panels and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

16.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all suspended ceiling systems including suspending grid, wall angle, hanger rods and hardware, and acoustic panels, as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 17- WINDOWS

17.1 - SCOPE

This work is providing and installing the windows in the building.

17.2 – MATERIALS

The windows shall be American Craftsman Series 3000 double-hung vinyl windows. Other manufacturers are acceptable provided that the windows have the following features and requirements. The windows shall be nominal size 2'-6" wide x 3'-0" high with double pane LowE3 insulated glass with argon gas.

1. Energy Star compliant.
2. Top and bottom sash tilt in for easy cleaning.
3. Fusion welded vinyl frame and sashes.
4. Dual weather stripping.
5. Insect screen.
6. Frame finish is white vinyl or metal.
7. Standard 6-lite colonial style white grilles, between class.
8. Integral exterior "J" trim around perimeter of window frame.

17.3 – SUBMITTALS

Submit a catalog cut or other information for each type of window and the shutters from the manufacturers to the PGC for review and approval before ordering any materials.

17.4 - PROCEDURE

Install the windows according to the manufacturer's instructions. Install additional framing lumber and construct window rough opening as required to safely support the window opening within building walls. Install the windows in the blocked and framed openings and secure them according to the manufacturer's instructions. Caulk or insulate around the installed windows to provide a weather-tight seal. Install any trim pieces on the interior or exterior as required, including the interior sill. Test the operation of the windows and make any adjustments if necessary.

17.5 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all new windows as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

A. Unit of Measurement: **Each**. No separate measurement or payment for additional framing lumber and carpentry, caulking, or trim as required to install and finish the windows.

TECHNICAL SPECIFICATION SECTION No. 18 – DOORS

18.1 - SCOPE

This work is providing and installing the man doors and garage doors in the new building as shown on the Drawings. Doors and frames shall include to have the necessary thresholds and/or weather-stripping/caulk as needed to provide for a tight seal.

18.2– MATERIALS

- A. General** – Refer to the door schedule on the drawings for details of hinge and swing requirements, sizes and lockset hardware. All locks (interior and exterior) are to be keyed alike. Manufacturers are quoted for hardware, locksets, gaskets, closers, etc. for the doors to set standards for performance and finish; other manufacturers are acceptable provided that their products are the same level of quality.
- B. Insulated Doors** - The insulated doors in the new building shall have the following features and characteristics. These doors are listed on the door schedule. The insulated doors shall be supplied with vertical narrow lights. Ceco Door Products Medallion Series conform to the following specifications but other manufacturers are acceptable.
1. Entry doors are galvanized 18 gage (minimum) steel 3'-0"x 7'-0" flush panel w/insulated core conforming to ANSI A250.8-03
 2. Entry door frames with galvanized 16 gage (minimum) steel double rabbet frame (knock down)
 3. Factory applied baked on primer with a factory or field applied white enamel finish coat on door and frame applied according to the manufacturer's instructions
 4. Doors are 1-3/4" thick
 5. Equipped with Precision 2108 x 4908A panic exit device trim and lever handle with 630 satin stainless-steel finish
 6. Satin finish stainless steel hinges
 7. Equipped with Best HD800 series door closer.
 8. Equipped with Rockwood K1050 (10"x34") kick plates (one side) with 630 satin stainless-steel finish
 9. Equipped with weather tight gaskets
 10. Equipped with aluminum mill finish threshold
 11. Equipped with National Guard Products C607DKB nylon brush seal.
 12. Dormakaba Best Access products 12E72 rim cylinder with 626 satin chrome finish. Permanent cores to be Cormax Patented.
 13. Cores and keys delivered directly to PA Game Commission.
- C. Non-insulated Doors** – The non-insulated interior doors in the new building shall have the following features and characteristics. These doors are listed on the door schedule. These doors shall be flush panel. Ceco Door Products Regent Series conforming to the following specifications, but other manufacturers are acceptable.

1. Passage doors are galvanized 20 gage steel flush 3'-0" x 7'-0" panel
1-3/4" thick full flush with honeycomb core
2. Passage doors frames w/galvanized 16 gage (minimum) steel double rabbet frame
3. Impact resistant, full honeycomb core with a min. crush strength of 45 psi
4. Seamless edges with 7 gage steel hinge reinforcement.
5. Satin finish stainless steel hinges
6. Dormakaba Best Access Systems 9K30L14C S3 privacy with 626 satin chrome finish for the bathroom door.
7. Dormakaba Best Access Systems 9K37AB14C S3 entry set with 626 satin chrome finish for offices and mechanical room doors. Keying Best Cormax to existing PGC System.
8. Equipped with kick plates (one side) and concave wall stop with 630 satin stainless-steel finish.

D. Garage Doors – The garage doors in the new building shall have the following features and characteristics (or equal to).

1. "Wayne Dalton" Commercial 12'x 12' or 14' doors w/R17.5 insulated core
2. Model 200 Thermospan or approved equal
3. Factory applied primer with white finish coat on door
4. Torsion spring
5. Lock included
6. Equipped with three 26' x 13" (or TYP) double insulated acrylic windows with black frames
7. Equipped with Genie trolley commercial door operator, Model GCL-T or approved equal.
 1. Door Operator & installation to include the following:
 - i. UL 325 Listed
 - ii. Power Chord
 - iii. Safety Eyes
 - iv. 3 button wall station (mounted inside)
 - v. Control wiring (installed in conduits)
 - vi. Pusher Springs
 - vii. (1) remote for each door
 - viii. Drawbar disconnect for emergency manual operation
 - ix. On-board timed close.
 2. Professional installation by manufacturer's representative

E. Padlocks – Two (2) 11B772 x Cormax padlocks with cores (match others). For a quote on all hardware, you may contact Delbert Hiestand by calling 717-413-1328 or by his email delbert.hiestand@dormakaba.com

18.3 – SUBMITTALS

Submit a catalog cut and other information for the man doors, garage doors and accessories from the manufacturers to the PGC for review and approval before ordering any materials.

18.4 - PROCEDURE

Install the steel entry doors and frames according to the manufacturer's instructions. All steel surfaces of the doors and frames are to be factory primed and a factory or field painted finish. The finish coat of the steel doors and frames shall be a white outdoor grade enamel. The garage door tracks, torsion springs and garage doors are to be installed by a manufacturer's representative.

18.5 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all new doors, door frames, door hardware, and keying as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Each** according to the type of door as listed on the Proposal Form. No separate measurement or payment for the frames, accessories, door hardware and keys.

TECHNICAL SPECIFICATION SECTION No. 19 – ARCHITECTURAL CASE WORK

19.1 - SCOPE

- A. Work of this Section includes all labor, materials, equipment, and services necessary to furnish and install all architectural casework as shown on the drawings and/or specified herein, including, but not limited to, the following:
- a. Pre-finished architectural base and wall cabinets as shown on drawings.
 - b. Heavy duty solid composite counter tops.
 - c. Wood grounds, blocking, nailers, furring as required for work of this Section.
 - d. All hardware, finish fasteners, and sealants for work of this Section.

19.2 – MATERIALS

- A. **Quality Standards** - The quality standards of the Architectural Woodwork Institute, "Architectural Woodwork Standards," 1st Edition, latest edition, shall apply to all workmanship, including materials and installation, for architectural casework, and by reference are made a part of this specification. All work shall conform to "Premium" grade requirements of the AWI "Architectural Woodwork Standards," unless otherwise modified herein.
- B. **Basic Requirements** - Before proceeding with casework required to be fitted to other construction, obtain field measurements, and verify all dimensions of shop drawing details as required for accurate fit.
- a. Compatibility of Grain and Color: The Department reserves the right to select materials for best compatibility between visually related members and veneers.
 - b. Inspect each piece of casework; do not use twisted, warped, bowed, or otherwise damaged or defective wood.
- C. **Utility Cabinets** – Kitchen Classics Hickory base and wall cabinets or approved equal w/Satin finish hardware (knobs) and adjustable shelves and meeting the following requirements and nominal sizes.
- a. Base cabinets (2) - 24" W and 34 1/2"H with single door and drawer
 - b. Wall cabinets (2) 21" W and 30"H with single door
- D. **Restroom and Break room Cabinets** – Kitchen Classics Hickory base and wall cabinets or approved equal w/Satin finish hardware (knobs) and adjustable shelves and meeting the following requirements and nominal sizes.
- a. Base cabinets (2) - 18" W and 34 1/2"H with single door and drawer
 - b. Sink Base cabinets (1) - 24" W and 34 1/2"H with single door
 - c. Wall cabinets (2) 15" W and 30"H with single door

- d. Wall cabinet (1) - 21" W and 30"H with single door **Plywood** - AWI Section 4; veneer with plywood core unless otherwise specified, and with the following requirements:
- E. Countertops** – Heavy duty, granite look laminate with fully laminated edges and backsplash.
- F. Fasteners** –
 - a. Wood Screws: FS FF-S-111, type, size, material and finish as required for the condition of use.
 - b. Nails: FS FF-N-105, type, size, material and finish as required for the condition of use.
 - c. Anchors: Type, size, material and finish as required for the condition of use.

19.3 – SUBMITTALS

Submit catalog cuts and other manufacturers information for all architectural casework with hardware and countertops to the PGC for review and approval before ordering any materials. Refer to submittal specification section for submission requirements.

A. Shop Drawings (Casework & Countertops.)

- a. Shop drawings shall indicate all materials, thicknesses and finishes.
- b. Shop drawings shall show all finish hardware, anchors, fastenings and accessories.
- c. Shop drawings shall show all jointing, joint treatment and butt jointing in veneers.
- d. Shop drawings for wood paneling must show complete elevations of units as well as panel matching required.

B. Samples: Submit samples of each of the following items:

- a. Transparent finish for each species of wood veneer laminate plywood panels, twelve (12) inches square, for each finish specified or shown.

19.4 - PROCEDURE

A. Fabrication General

- a. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops), and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offset in revealed adjoining surfaces.
- b. Scribe and cut work to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts.

- c. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation.

B. Wood Trim

- a. Install with minimum number of joints possible, using full-length pieces for each run. Stagger joints in adjacent and related members. Cope at returns, miter corner. Joints of all trim and/or moldings shall be set tight, miter exterior angles and cope interior angles. Joints, except end joints less than twelve (12) feet apart, will not be permitted in straight runs of trim and/or moldings and rails.
- b. Secure all trim and/or moldings with glue and blind nail with finishing nails. Set exposed nail heads in finished work and putty. Sand all work to remove any tool marks and irregularities.

C. Finishing

- a. General: All finishing work of this Section shall be shop applied, unless otherwise noted, as specified below. All finishing shall match approved samples.
- b. Field Touch-Up: Provide field touch-up as required, including the filling and touch-up of exposed job made nail or screw holes, refinishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars, and final cleaning up of the finished surfaces.

D. Clean Up and Protection

- a. Clean Up: At regular intervals during the course of the work, all debris and excess material shall be cleaned up and removed from the site. Upon completion of installation, clean all spaces of debris caused by woodwork installation.
- b. Protection: Protect all casework from marring, defacement of other damage until final completion and acceptance of the project by the Owner. Repair or replace all defective units prior to final inspection. Any units that cannot be satisfactorily repaired shall be replaced with new units of same original design, at no additional cost to the Owner.

19.5 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all architectural casework, hardware (pulls), countertops, and finishing as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 20 – INCIDENTALS

20.1 - SCOPE

This work is to furnish and install toilet accessories, fiberglass reinforced wall panel system, fire extinguishers and bollards, as shown on the Drawings.

20.2- MATERIALS

A. Toilet Accessories:

- a. Toilet Paper Dispenser: Bradley Model 532, concealed mounting, exposed dual roll; chrome plated die cast Zamac alloy escutcheons and posts; chrome-plated plastic spindle or approved equal.
- b. Paper Towel Dispenser: Bradley Model No. 250-15, stain finish stainless steel, surface mounted, Capacity: 525 multi-fold or 400 C-fold paper towels, tumbler lock and refill indicator or approved equal.
- c. Liquid-Soap Dispenser: Bradley Model No. 655, surface mounted, satin finish stainless steel housing and soap vessel. Includes metal wall plate mechanically locked to dispenser. Push up type chrome plated brass soap valve with ABS plastic mechanism. 40 oz. capacity. Keyed fill hole for service.
- d. Grab Bars: Bradley 812 Series, 1-1/2" outside diameter heavy-duty stainless-steel ADA compliant grab bars with concealed mounting or approved equal. Grab bars shall include No.4 satin finish that resist scratches.
- e. Mirror: Bradley Model 740-1836 ADA compliant, fixed angle, tilt frame, satin finish 20-gauge stainless steel frame with welded corners, 18 inches by 36 inches or approved equal. Surface mount mirror with 3/4" by 3/4" frame, frame projects 4 inches at the top and tapers to 1 inch at the bottom. Provide 1/4" thick tempered glass mirror.

B. Fire Extinguishers: 20 lbs. ABC fire extinguishers fully charged and tested shall be furnished and installed by the PGC, not in contract.

C. Fiberglass Reinforced Wall Panel System:

- a. Furnish and install Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM 5319 at all locations as indicated on drawings. Fiberglass reinforced panels (FRP) shall have a **Class A fire rating**. Color White.

- b. Dimensions: Thickness – 0.090” nominal, Width – 4’-0” nominal, Length – 10’-0” or as indicated on drawings. Properties: Resistant to rot, corrosion, staining, denting, peeling and splintering. Conforms to ASTM D 790 for flexural strength and ASTM D 638 for tensile strength. Impact strength of 72 ft. lbs./in ASTM 256.
- c. Moldings: PCV trim thin wall semi-rigid extruded PVC. Provide inside and outside corners, meeting and edge trims as required for installation in accordance with the manufacturer’s product specifications.
- d. Base: FRP Base molding, 10’ lengths complete with inside and outside corners and end caps. Color Black.
- e. Accessories: White non-staining nylon drive rivets and adhesives complying with ASTM C 557. Adhesive to be manufactured and recommended by (FRP) manufacture or Titebond advanced polymer/panel adhesive in accordance with installation of Class A fire rated (FRP) panel . Install white silicone sealant.
- f. Installation: Comply with manufacturers recommended procedures and installation sequence. Comply with all recommended preparation of back up surfaces.

D. Epoxy Flooring System. Basis of Design: 3/16” Decorative Quartz Epoxy Seamless Flooring System with integral cove base or approved equal. (Office/Break & Bath)

- a. Basis of Design: Durex Coverings, Inc. Mosaix Floor #190 is a seamless, 3/16-inch decorative epoxy flooring system that utilizes 100% solids epoxy. The system incorporates a decorative mosaic mixture of ceramic aggregate and clear epoxy/urethane resins to build a monolithic, durable, and chemical resistant seamless floor.
- b. Provide an epoxy light non-skid surface within Unisex Restroom, new flooring shall not tear at mops and remain easily cleanable.
- c. Add seamless integral cove base at all perimeter walls.
- d. Provide ADA compliant aluminum threshold at door opening transitions if required.
- e. Perform all subfloor preparation and leveling as required correcting all unsatisfactory subfloor conditions.

E. Pipe Bollard:

- a. The metal pipe bollards installed along the front elevation of the building as indicated on Floor Plan shall be 6” diameter x 5’0” long (top of bollard to extend min. 36” above concrete) galvanized steel pipe filled with concrete. Mound concrete fill at top and slope concrete at base of bollard as required to

prevent standing water. Apply (2) coats of acrylic enamel paint, **YELLOW** or provide HDPE pipe bollard cover, **YELLOW**.

F. Coat Shelf/Rod:

- a. ¾” edge-banded painted plywood shelf or white melamine laminated shelf complete with 1” diameter heavy duty chrome closet rod.

G. Dryer Venting:

- a. Furnish and install recessed dryer vent box, by DryerBox, Model 425THD, aluminized steel to meet UL Classified one hour wall assembly complete with upward exhaust direction to fit in 2” x 6” stud wall.
- b. Dryer vent piping material to be in accordance with Section 504.8.1 of the 2018 International Mechanical Code and have a smooth interior finish, constructed of metal not less than .016 in thickness and be 4” nominal in diameter.
- c. Install exterior thru wall metal dryer vent cap complete with metal hood to match existing siding finish and screen guard.

20.3– SUBMITTALS

Submit a catalog cut and other manufacturers information for all toilet accessories, fiberglass reinforced wall panel system, and ceiling hatch to the PGC for review and approval before ordering any materials. Refer to submittal specification section for submission requirements

20.4 – PROCEDURE

Install all incidentals and building components in accordance with the manufacture’s product specifications, applicable 2018 International Building Code provisions, and shop drawings. Comply with ICC/ANSI A117.1 guideline for mounting heights and locations of all toilet accessories and grab bars.

20.5 – MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all incidental building systems and components including toilet accessories, Fiberglass reinforced wall panel system, and ceiling hatch as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 21 - SEEDING

21.1 - SCOPE

This work is securing a satisfactory stand of grass at all disturbed earth areas and includes preparation of the seed bed, furnishing and placing lime and fertilizer, furnishing and sowing of seed, mulching, and maintaining and tending the seeded areas. Do not seed areas (parking area and driveways) that are shown to be surfaced by stone by the PGC. The limits of the parking area and driveways will be staked out by the PGC during building construction.

21.2 - APPLICABLE ACTS AND PUBLICATIONS

Bulletin 15 - Approved Construction Materials, Pennsylvania Department of Transportation.

Pub 408. - Specifications, Pennsylvania Department of Transportation.

21.3 - MATERIALS

A. Grass Seed - Use grass seed conforming to section 804.2(b) of Pub. 408 and consisting of the following seeds and application rates.

<u>Formula L</u>	Max. % Weed	Purity% (Min.)	Germination % (Min.)	Seed Rate (Lbs./Acre)
Hard Fescue mixture (<i>Festuca longifolia</i>) A combination of improved certified varieties with no one variety exceeding 50%.	0.15	98	85	63
Creeping Red Fescue	0.15	98	85	41
Annual Ryegrass (<i>Lolium Multiflorum</i>)	0.15	98	90	12
Total Lbs./Acre				116

* No seed shall contain Canada Thistle, Field Bindweed, Johnson Grass, Perennial Sowthistle, Quackgrass, Horse Nettle, Bedstraw, Corncockle, Brassica Kaber, Brassica Nigra, Wild Onion, or Wild Garlic.

With the approval of and at no additional cost to the Game Commission, you may add annual ryegrass seed to the mixture to secure a cover crop.

Seed shall be furnished fully tagged and delivered by separate varieties, separately packaged or bagged. Mix seed in the presence of a representative of the Game Commission.

Deliver premixed seed in bags or other suitable containers, each fully labeled with the name, trademark, and warranty of the producer and with the mixture type, weedseed percentage, purity percentage, germination percentage, and mix formula or composition.

Do not use seed which has become wet, moldy, or otherwise damaged in transit or storage, has a mix date older than 9 months prior to seeding, or has a test date older than 6 months prior to seeding.

- B. Fertilizer** - Fertilizer shall conform to the applicable act specified in Section 31.2 of these Technical Specifications. Use dry formulation of 10-20-20-analysis.

Fertilizers shall be delivered in bags or other suitable containers, each fully labeled and bearing the name, trademark, and warranty of the producer.

- C. Lime** - Conform to section 804.2.(a).1 of Pub.408.

- D. Mulches** - Mulches shall be free from mature seedbearing stalks or roots of prohibited or noxious weeds as defined by law. Do not use mulches which are cut into lengths of less than 6 inches.

Mulches shall be either one or a combination of the following, shall contain no stems of tobacco, soybeans, or other coarse or woody materials.

- a. **Straw** - Either wheat or oat straw, and reasonably free of viable seeds, well-cured to less than 20 percent moisture content by weight.
 - b. **Wood Fiber** - Use wood fiber meeting the requirements of Section 805.2(a).1.c of Pub. 408.
- E. Mulch Binders** - Use one of the following mulch binders in accordance with section 805.2(b) of Pub. 408: Recycled Cellulose Fiber, Wood Fiber, Nonasphaltic Emulsion, Polyvinyl Acetate, or a Mixture of Recycled Cellulose Wood Fiber and Wood Fiber Obtain binders from a producer listed in Bulletin 15.
- F. Water** - Water shall be fresh and free from injurious amounts of oil, acid, alkali, salts, or other materials harmful to the growth of grass.

21.4 - PROCEDURE

Follow the procedures specified below. The amounts of seed, lime, 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 and lime at a rate of 680 Lbs. and 4,000 Lbs. per acre respectively, and make sure that they are 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.

B. Sowing - Sow the seed mixture on a still day at a rate specified in Section 31.3 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 3 tons (dry weight) per acre. The mulch shall be moist at the time of placement.

Apply wood fiber mulch hydraulically in accordance with the manufacturer's tank-mixing instructions. Wood fiber mulch may be incorporated into the slurry after the seed and soil supplements have been thoroughly mixed. Apply wood fiber mulch at a rate of 800 Lbs. per acre unless otherwise indicated by the manufacturer.

On slopes 6:1 or flatter, apply pellet mulch by hand or using a mechanical spreader immediately after seeding, at a rate of 2,615 Lbs. per acre. Thoroughly wet pellet mulch with water without dislodging mulch.

To prevent loss or bunching by wind and to form a soil-binding mulch, anchor the moist mulch to the soil with a mulch binder. Use mulch binders at the following rates:

Recycled Cellulose Fiber - 775 Lbs./Acre
Wood Fiber - 775 Lbs./Acre
Mixture of Recycled Cellulose Fiber and Wood Fiber - 775 Lbs./Acre
Nonasphaltic Emulsion - Manufacturer's Recommended Rate
Polyvinyl Acetate - Manufacturer's Recommended Rate

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

21.5 - MAINTENANCE

At no additional cost to the Game Commission, maintain the seeded areas until all work under the Contract has been completed and accepted by the Game Commission. Maintenance shall include refilling rain-washed gullies, reseeding, reapplying fertilizer, lime and mulch, and removal of large and noxious weeds, as directed by the Game Commission.

21.6 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for all seeding including soil amendments and stabilization of all distributed soils on site as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION NO. 22 – SEPTIC SYSTEM

22.1 - SCOPE

This work is providing and installing the septic tank and alarm system that comprise the septic system as shown on the Drawings. The entire scope of work to fall under the General Construction Contract No. 1.

22.2 – MATERIALS

- A. Septic Tank** – Precast concrete with a 1,500 gallon capacity and the following characteristics and features:
- a. Concrete strength is 4,000 psi (min.) at 28 days.
 - b. Reinforcing steel is grade 60 conforming to ASTM A615 and ASTM A185.
 - c. Capable of supporting HS-20 traffic loading.
 - d. 12-inch minimum riser with manhole cover.
 - e. Manhole is 24-inch diameter
 - f. Mastic sealed joints.
 - g. 4-inch diameter inlet penetration.
 - h. Outside face sprayed with a bituminous protective coating.
- B. Alarm System** – The alarm system shall be an electric float sensing system with a warning light and buzzer, which will be mounted on the new building. The alarm shall be calibrated to go off when the tank reaches 75% capacity. All wiring, float sensors are to be included in a complete alarm system, plus the additional features:
- a. Rated for Outdoor use to meet type 3R water-tight standards.
 - b. Automatic alarm reset.
 - c. Power on indicator
 - d. Alarm test switch
 - e. Horn silence switch.
- C. Aggregate Bedding** – The bedding for the precast concrete holding tank shall be #2A coarse aggregate. The bedding for the pipe running to the holding tank shall be AASHTO #10.
- D. Pipe** – Schedule 40 PVC conforming to ASTM D1784 and ASTM D1785.

22.3 - SUBMITTALS

Submit a catalog cut or other information for the holding tank and alarm system from the manufacturers to the PGC for review and approval before ordering any materials.

22.4 - PROCEDURE

Mark the location of the septic tank as shown on the drawings. Excavate to a depth so that the holding tank lid has at least 12-inches of earth cover. The limits of excavation shall be 12-inches outside the edges of the tank(s). Place a minimum base of 4-inch layer of #2A coarse aggregate in the bottom of the hole to serve as a foundation for the tank. Smooth and compact the aggregate to form a level even support surface for the holding tank.

Place the septic tank into the excavated hole. Seal the joints in all tank sections. Backfill around the tank and compact. Connect the sewer pipe from the building to the septic tank. Install the alarm system according to the manufacturer's instructions. Backfill over the tank and install the manhole cover on the riser.

22.5 - MEASUREMENT AND PAYMENT

Unit of Measurement: **Lump Sum**. Separate measurement and payment for excavation, aggregate bedding, compacted backfill and piping according to the applicable sections of the Technical Specifications.

TECHNICAL SPECIFICATION SECTION No. 23 – HEATING SYSTEM AND DUCTWORK *Separation of Contract, to be awarded separate with “Contract 2”.*

23.1 – SCOPE

This work is providing and installing the heat pump, air handler, ductwork, registers, and grilles that make up the new building’s heating and air-conditioning system. Mechanical work shall also include the installation of a suspended LP gas fired heating unit within the heated shop area with one (1) 120 lb. propane tanks at the exterior of building for a secondary heat source to assist with energy recovery when overhead door(s) are operated.

23.2 – MATERIALS

- A. Heat Pump and Air Handler (typical for both)** – Bosch Heat Pump BOVA-60RXB-M15S IDS Light 5 Ton outside condenser unit and a BIVA-48RCB-M20X IDS Premium 4 Ton indoor air handler/furnace or an approved equal with the following characteristics.
 - a. 5-ton, Modulating Inverter System
 - b. All materials and workmanship to be guaranteed for one year from date of installation. Manufacturer’s 5-year warranty on functional parts & compressor.
 - c. Minimum 18 SEER and 8.5 HSPF with matched 4-ton air handler
 - d. Variable speed blower motor
 - e. EHK-15B-15kW minimum emergency backup staged electric heat strips
 - f. Outdoor unit is to be equipped with snow legs
 - g. Outdoor unit is to be installed on concrete pad provided by G.C.

- B. Thermostat** – Bosch BCC100 Wi-Fi Thermostat or an approved equal.

- C. Ductwork** – To be sized and installed from the requirements and procedures of SMACNA. Metal ductwork to meet or exceed UCC code requirements. All supply ducts to be insulated as per code. Supply duct take-offs to be equipped with integrated dampeners capable of balancing the system.

- D. Hanger Rods and Supports** – Cadmium plated steel rods and nuts with Unistrut cross bar members.

- E. Grills and Registers** – Steel with baked white enamel finish.

- F. Liquid Propane Fired Unit Heater** – Reznor UDX75 LP gas fired suspended unit heater or approved equal, certified for commercial/industrial heating applications with single burner combustion system including one-piece burner assembly including the following features.

- a. Input Heating Capacity - 75,000 BTUH
- b. Thermal Efficiency - 83 %
- c. Output Heating Capacity – 62,250 BTUH
- d. Gas Connection - ½ inch propane
- e. Direct Vent Connection Size – 4 inches diameter
- f. Vibration/noise isolated fan and venter motors – designed for low noise operation
- g. Option Features shall include single-stage gas valve, vent cap, thermostat, gas conversion kit, ceiling suspension kit, manual shutoff valves and all materials required for proper installation in accordance with the UCC Fuel and Gas Code and manufacturers product specifications.

G. Propane Tanks- The new propane tank including regulator and gauges shall be furnished by the PGC South Central Region and installed by certified LP service provider. The Mechanical Contractor shall furnish and install new rigid LP gas piping system into the building envelope then continue with CSST flexible gas piping, valves, Pipe hangers, and all mechanical materials required to connect to propane tanks to new suspended unit heater.

23.3 - PROCEDURE

Conform to the manufacturer's requirements when installing the heat pump, air handler and other components of the heating system. The drawings show the suggested size, location and layout of the ductwork and grilles/registers for each room in the building. Layout can be modified if air flows and system performance can be maintained. Mount ductwork with the applicable hardware.

Install the thermostat in the break room/office. Make the required electrical connections to operate the system. Test the HVAC system and make any necessary balance adjustments in the ductwork. Demonstrate system to PGC on site staff.

Discharge the condensate line outside the exterior of the wall and properly seal the penetration with a weather-tight sealant.

23.4 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation for HVAC systems, ductwork, duct insulation and all related accessories including a thermostat as specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

TECHNICAL SPECIFICATION SECTION No. 24 – PLUMBING

Separation of Contract, to be awarded separate with “Contract 3”.

24.1 - SCOPE

This work is providing and installing the components of the water supply and sanitary sewer systems inside the building. Connections to the water well supply, existing on-site septic tank, trench drains, mechanical room floor drain, piping for these drains and fittings are part of this contract. The sweep leading under slab into the building shall be included in this contract. The well installation will be under separate contract and include all trench work, wire, bedding, pitless adapter, pump, well pressure tank and piping from well location to into the building.

24.2 – MATERIALS, WATER SUPPLY & FITTINGS

- A. Water Supply Pipe** - The water supply (hot and cold) pipes shall be non-oxygen barrier PEX-A (cross-linked polyethylene) conforming to ASTM F876, ASTM F877 and NSF 14 & 61 or type “L” copper. Provide type “L” copper leads to connect water heater to PEX plumbing systems, 18” minimum from water heater.
- B. Water Supply Fittings and Valves** – Install fittings and clamps conforming to the PEX manufacturers product specifications. All fittings and valves shall be brass body per manufacturer. Hose bibbs to be brass anti-siphon frost proof with shut off valve mounted above.
- C. Waste and Vent Pipe and Fittings** – Schedule 40 PVC conforming with ASTM D1784, D1785 and D2665.
- D. Pipe Cements** – The solvent cement for making connections in PVC pipes and fittings shall conform to ASTM D2564. The primer for making connections in PVC pipes and fittings shall conform to ASTM F656.
- E. Pipe Insulation** – Self sealing elastomeric sleeves conforming to ASTM C534.
- F. Supply Lines to Faucets and Toilets** – Flexible braided stainless steel.
- G. Shower Valve and Head** – Residential grade compatible with water supply piping.
- H. Trench Drain System** –
 - a. System requirements: Provide a trench drain system of prefabricated modular pre-sloped components. The system shall incorporate a frame when required to

- b. carry the specified load. Gratings shall comply with the load requirements of AASHTO or DIN/EN loading. Integral frames which extend onto the concrete slab shall include consolidation vent ports which help minimize air entrapment under the frame when proper vibration techniques are used. Frames which extend onto the concrete slab shall include anchoring studs which secure the frame into the surrounding concrete. Anchoring studs shall be a minimum of 0.5 inch in diameter and shall extend at least 3 inches from the frame. The anchor studs shall be Fiberglass systems shall either include surface veil or gel coat on the media bearing surface with a UV inhibitor package.
 - c. Provide Polycast 600 trench drain systems manufactured by Hubbell Power Systems, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771, Website www.polycastdrain.com, or approved equal. Install in accordance with the manufacturer's installation guide.
 - d. Top of trench drain grating shall be minimum of 3 inches lower than perimeter elevation of floor slab.
- I. Floor Drain** – The floor drain in the mechanical room shall be a 3-inch PVC general purpose floor drain equipped with a removable stainless-steel strainer such as an Oatey Model #43579.

24.3 – MATERIALS, PLUMBING FIXTURES

- A. General** – Refer to the elevations and fixture legend on the drawings for the layout of the bathroom and fixture installation location. Manufacturers and model numbers of fixtures are listed below to set a standard for performance, size and finish. Other manufacturers are acceptable provided that their products are the same or better level of quality.
- B. Bathroom Shower Control/Head** – American Standard control & head
- a. Polished chrome finish
 - b. Lever handle mixing valve design with anti-scald.
 - c. ADA compliant
- C. Toilet** – KOHLER Highline 2-piece Comfort Height Elongated Toilet (MFG# K-3493-RA-0) or approved equal meeting the following requirements.
- a. White vitreous china construction
 - b. Elongated bowl and min. bowl rim height of 17” (ADA compliant)
 - c. Include or supply tank hardware, wax ring and elongated polypropylene finish white toilet seat
 - d. Pressure assist flushing system (1.4-gallon flush)

- e. 12-inch rough-in
- D. Urinal** -KOHLER-Dexter 1-Pint or 0.125gpf Urinal (MFG# K-5452-ET) or approved equal meeting the following requirements.
- a. White vitreous china construction
 - b. Washout urinal
 - c. ¾" Top spud
 - d. Inlet and outlet spud hangers.
 - e. Anti-backsplash wall.
 - f. 14-3/4" extended trim.
- E. Shower Stall & Lining** – One-piece gelcoated fiberglass shower with textured floor. Fiberglass Reinforced Panels with trim shall be used in area above the one-piece shower. The panels shall have a finished color white, silver, almond or ivory. Tile may be installed if desired.
- F. Water Dispenser**- Recessed water dispenser/icemaker box to be Model# 38333, by Oately CO. or approved equal. Dispenser to be no hammer lead, ¼ turn valve complete with PEX push connect connections.

24.4 – MATERIALS, PLUMBING SINKS, AND FAUCETS

- A. General** – Refer to the elevations and fixture legend on the drawings for the layout of the utility sink and cabinets. Manufacturers and model numbers of fixtures are listed below to set a standard for performance, size and finish. Other manufacturers are acceptable provided that their products are the same or better level of quality.
- B. Bathroom Sink** – American Standard Comrade Wall Mount Bathroom Sink (MFG# 0124.024.020) or approved equal meeting the following requirements.
- a. White, vitreous china construction
 - b. Pre-drilled 4" center faucet holes for center set faucet applications
 - c. Wall hanger for mounting included
 - d. ADA compliant
 - e. Rectangular shape, min. width 21", min. depth 18"
- C. Bathroom Sink Faucet** – American Standard Monterrey Gooseneck Spout Bathroom faucet (MFG# 7502.170.002) or approved equal meeting the following requirements.
- a. Polished chrome finish
 - b. 4" centerset design
 - c. 2 handle lever design
 - d. Gooseneck spout (10" min. height)
 - e. ADA compliant

D. Utility Sink – Swan 23” x 23” Veritek Single Bowl Laundry Tub (MFG# MF-1F) or approved equal meeting the following requirements.

- a. White, 22-gallon capacity
- b. Angular steel legs

E. Utility Sink Faucet – American Standard Cadet 2-Handle Laundry Faucet (MFG# 7573.140.002) or approved equal meeting the following requirements.

- a. Solid brass construction with Satin finish
- b. Ceramic disk valves
- c. Brass swivel spout with hose end
- d. 2.2 GPM flow rate
- e. ADA compliant

F. Break Room Faucet – American Standard Colony Soft Gooseneck Spout faucet (MFG# 4275.550.002) or approved equal meeting the following requirements.

- a. Polished chrome finish
- b. 4” centerset design
- c. 2 handle lever design
- d. Gooseneck spout (10” min. height)
- e. ADA compliant

G. Break Room Sink – Kohler Staccato Stainless-Steel single-basin commercial sink (Model# 3363-3-NA) meeting the following requirements.

- a. Single bowl 20-inch width
- b. 8-inch depth
- c. Sound-absorption material applied
- d. 18 gauge

24.5 – MATERIALS, WATER HEATER

A. Water Heater – The water heater shall be an electric water heater with the following features and characteristics:

- a. AO Smith 40-gallon tank, short and 240 volts
- b. Dual 5,500-watt copper, stainless or titanium elements
- c. Minimum 9-year warranty on the tank
- d. Minimum 25 GPH recovery @ 90°F
- e. Factory installed temperature/pressure relief valve
- f. Adjustable thermostat

B. Drip Pan – Black plastic (polyethylene) with pre-cut side opening for 1-inch drain fitting. The diameter of the drip pan shall be at least 2-inches greater than the outside diameter of the water heater. Raise drip pan and heater with suitable blocking to aid in draining the tank.

C. Thermal Expansion Tank – Proflo PFXT51, 2.1 gallon thermal pre-pressurized expansion tank.

24.6 - SUBMITTALS

Submit a catalog cut or other information for the utility sink, faucet, cabinets, light and countertops from the manufacturers to the PGC for review and approval before ordering any materials.

24.7 - PROCEDURE

Conform to the requirements of the International Plumbing Code for all work conducted under this section. Lay out supply, waste and vent pipes so that structural supports do not have to be cut or drilled through. Use applicable hangers/supports for all pipes where needed.

Provide pressure tank and all fixtures to make the water supply completely functional. Assemble the tank and features so that the system operates on a 40/60PSI range. Circuit breakers in panel box are provided by the electrical contract. Verify and coordinate exact tank location in field with other utilities.

Install $\frac{3}{4}$ -inch pipe from well shut off as a branch line to the water heater and $\frac{1}{2}$ -inch connection for the faucets, shower and toilet. Install shut-off valves in the supply piping at the sinks and at the toilet. Install flexible stainless-steel supply pipe from the shut-off valves to the faucets and toilet. Cover the hot water supply pipes with sleeve insulation.

Waste and vent pipes shall be PVC. Use $1\frac{1}{2}$ -inch PVC for sink drains. Use 2-inch and 3-inch pipe for vents as shown on the sewage schematic. Use 3-inch PVC for the toilet drain and 4-inch PVC for the sewer lateral drainpipe that exits from the building. Install the applicable traps, toilet flanges and other fittings connections under plumbing fixtures. Excavate outside the building to run the sewer pipe and provide a conduit for the water supply to enter under the building slab. Excavate the trench as shown on the Drawings. The trench depth will vary with the existing ground level and the slope of the pipe. The pipes shall be sloped at a minimum $\frac{1}{4}$ -inch per foot. Install the solid drainage pipe in the trench and backfill with AASHTO #10 stone. Complete backfilling of the trench with excavated material outside the building and #2B coarse aggregate under the floor of the building.

Excavate the trench drain areas as recommended by the manufacturer so the units can be surrounded by at least 6-inches of concrete. The top of the trench drains is to be below the finished elevation of the concrete floor to properly drain. Protect the trench drains

during concrete placement so that concrete does not enter the units. Secure the trench drains so that they are not displaced during concrete operations. Use essentially the same procedure for installing the floor drain in the mechanical room.

Connect sewer to holding/sewer tank. Install alarm according to manufacturer guidelines and recommendations.

24.8 - MEASUREMENT AND PAYMENT

This price and payment shall constitute full compensation to furnish and install new plumbing fixtures, sinks, shower cabinet, water closet, well pump and tank, domestic water and sanitary sewer branch plumbing piping systems, hot water heater, hose bids, trench and floor drains specified and shown and as directed by PGC staff including but not limited to all labor, materials, equipment, supervision, accessories, disposal of waste and related work.

Unit of Measurement: **Lump Sum.**

PENNSYLVANIA GAME COMMISSION

PROJECT NO. PGC-050-24-01

STATE GAME LANDS #050

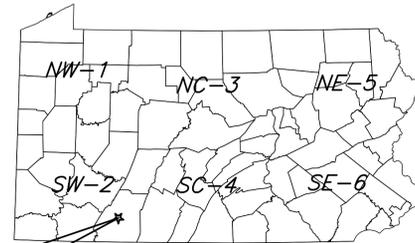
NEW 40' x 100' CREW HEADQUARTERS BUILDING

SOMERSET TOWNSHIP, SOMERSET COUNTY, PENNSYLVANIA

CONTRACT NO. 1: GENERAL CONSTRUCTION **CONTRACT NO. 3: PLUMBING CONSTRUCTION**
CONTRACT NO. 2: MECHANICAL CONSTRUCTION **CONTRACT NO. 4: ELECTRICAL CONSTRUCTION**

SITE PLAN GENERAL NOTES:

- UTILITY LINE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. UNDERGROUND TELEPHONE, ELECTRIC, GAS, SANITARY SEWER, WATER AND STORMWATER DRAINAGE LINES MAY BE PRESENT AT SOME WORK LOCATIONS. FIELD VERIFICATION IS REQUIRED PRIOR TO ANY CONSTRUCTION. CONTACT PA ONE CALL AND COMPLY WITH ACT 287 (AS AMENDED) REGARDING LOCATIONS OF UNDERGROUND UTILITIES.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT, THE LOCAL MUNICIPALITY AND THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY COMPANIES IN THE EVENT ITEMS SUCH AS TEMPORARY POLE SUPPORT IS REQUIRED. THIS WORK SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING DRAINAGE FACILITIES SHALL REMAIN INTACT DURING CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL AREAS DISTURBED BY THE CONSTRUCTION WORK SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS TO THEIR ORIGINAL CONDITION OR BETTER.
- ALL DISTURBED AREAS NOT RECEIVING OTHER SURFACE TREATMENT SHALL BE GRADED, SEEDED, AND MULCHED.
- CONTRACTOR SHALL REFER TO CONTRACT DOCUMENTS FOR SOIL EROSION & SEDIMENTATION CONTROL PLAN REQUIREMENTS.
- MAINTAIN ACCESS TO DRIVEWAYS AND ENTRANCES LOCATED ALONG THE PROJECT.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION VEHICLES (INCLUDING MATERIAL SUPPLIER VEHICLES) LEAVING THE PROJECT AREA HAVE MUD BUILDUP REMOVED FROM THE TIRES BEFORE EXITING ONTO PAVED ROADWAYS. ALL MUD TRACKED ONTO PAVED ROADWAYS SHALL BE IMMEDIATELY REMOVED FROM THE ROADWAY.



PROJECT LOCATION
 STATE GAME LANDS No.050
 772 BERLIN PLANK ROAD
 SOMERSET, PA 15501

★ = GEO N39.989914, -79.050714°W

PROJECT MAP
 NOT TO SCALE



PROJECT LOCATION
 STATE GAME LANDS No.050
 772 BERLIN PLANK ROAD
 SOMERSET, PA 15501
 SOMERSET COUNTY

PROJECT LOCATION PLAN
 NOT TO SCALE

BUILDING CODE SUMMARY

Code: International Building Code, 2018 edition

Scope: Construction of a new 40' x 100' Crew Headquarters Building on State Game Lands No. 050 in Somerset Township, Somerset County. The new building shall include accommodations for PGC maintenance staff and storage of excavation equipment, implements and tools necessary for maintaining state game land grounds and roadways.

Summary:

Use & Occupancy Group: 304.1 B Building occupied portion for Office
 3.11.1 S-1, Building portion used for Storage that are not S-2.

Construction Type: VB (Table 601)

New Building Area: 4,000 s.f.

Allowable Area: 9,000 s.f. (Table 506.2)

Building Stories: 1 Story, No basement, Allowable Stories: 1 Table 504.4)

Fire Protection: No fire suppression, not required.

Fire Extinguishers: Units of "A" = 4,000 / 1,500 = 2.66 ~ 3 (Table 906.3(1)) Fire extinguisher shall be provided at each of the three building exits.

Occupant Load: Business, Occupancy Factor = 150 gross
 502 S.F./150 = 3.34 ~ 3 persons
 Storage, Occupancy Factor = 300 gross
 3,498 S.F./300 = 11.66 ~ 12 persons

Egress Width: 15 x 0.2 inches = 3 inches min. (1005.3.2).

Means Of Egress: 3 Exits provided = 108 inches; 1 required (Table 1006.3.3(2))

Accessibility: Not required, agricultural building.

Energy Efficiency: Requesting exemption/variance from PA L&I, A.A.B.
 Building/structure to be partially heated and air conditioned.
 Heated area: Crew Area + Shop Area = 1,872 S.F.

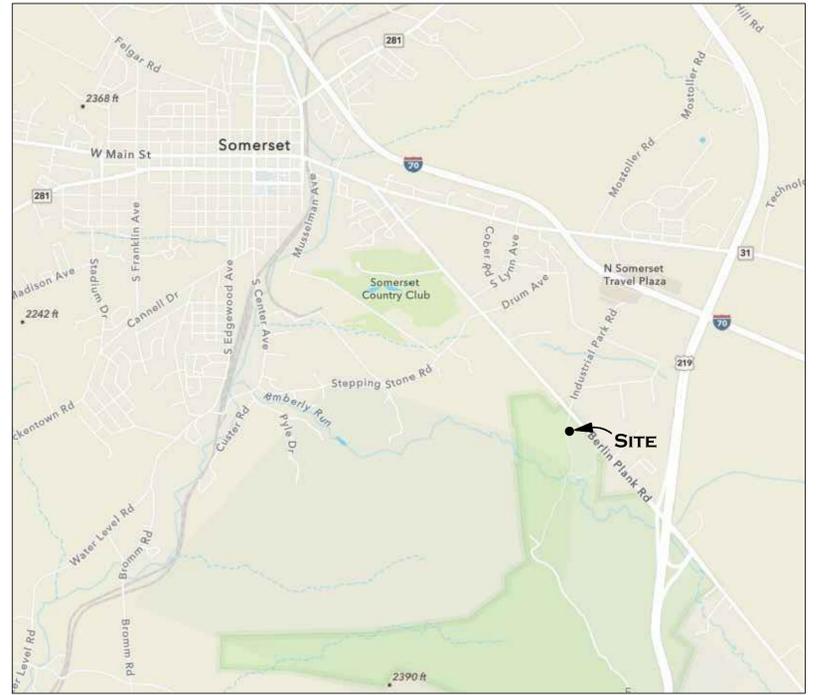
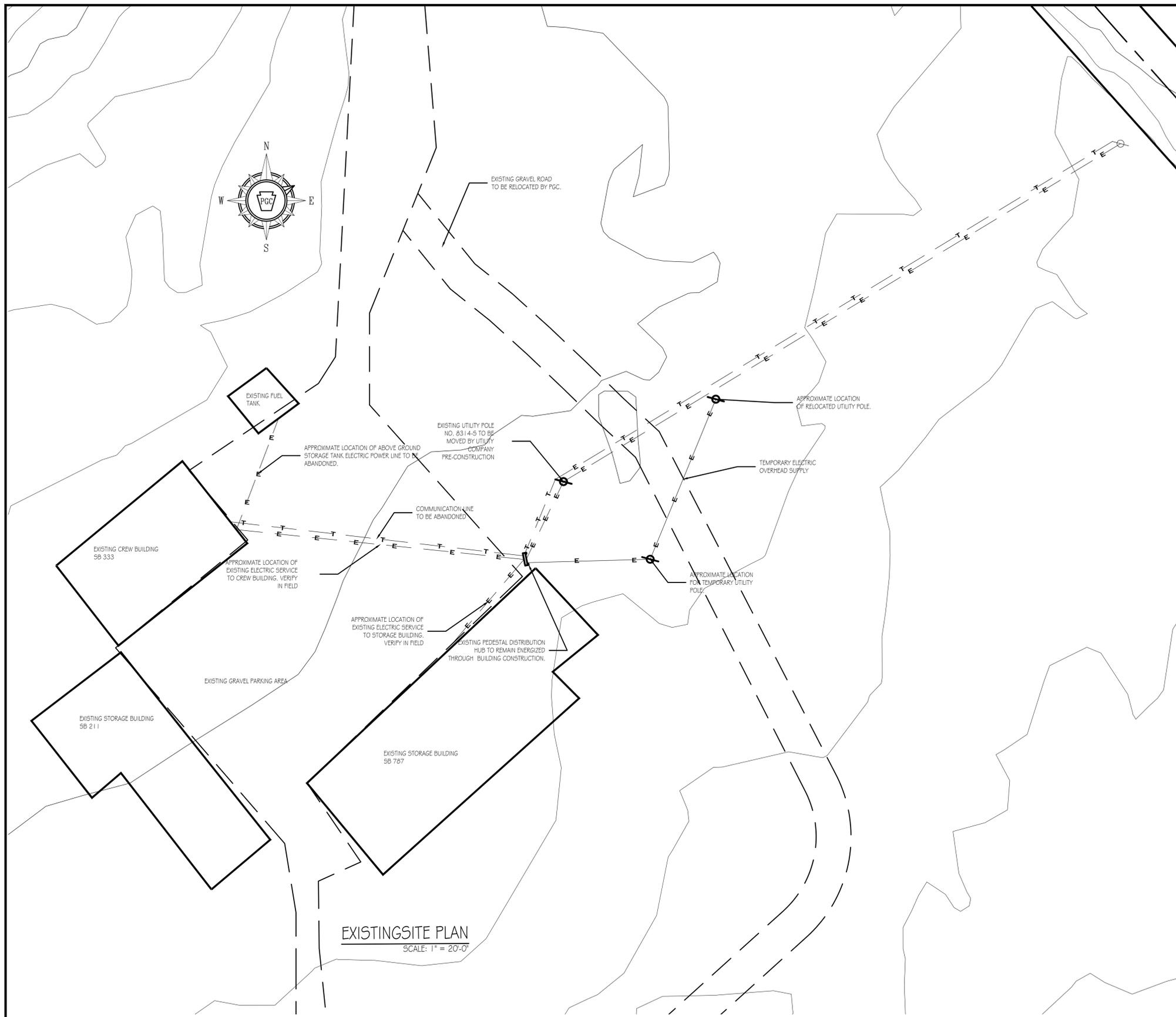
Truss Design Criteria: Roof trusses must have a roof load rating of 42.5 lbs/ SF ground snow load (snow load factor of 0.7) and a (Risk Category II) wind load rating of 25 lbs/SF and wind speed rating of 115 MPH minimum.

DRAWING INDEX

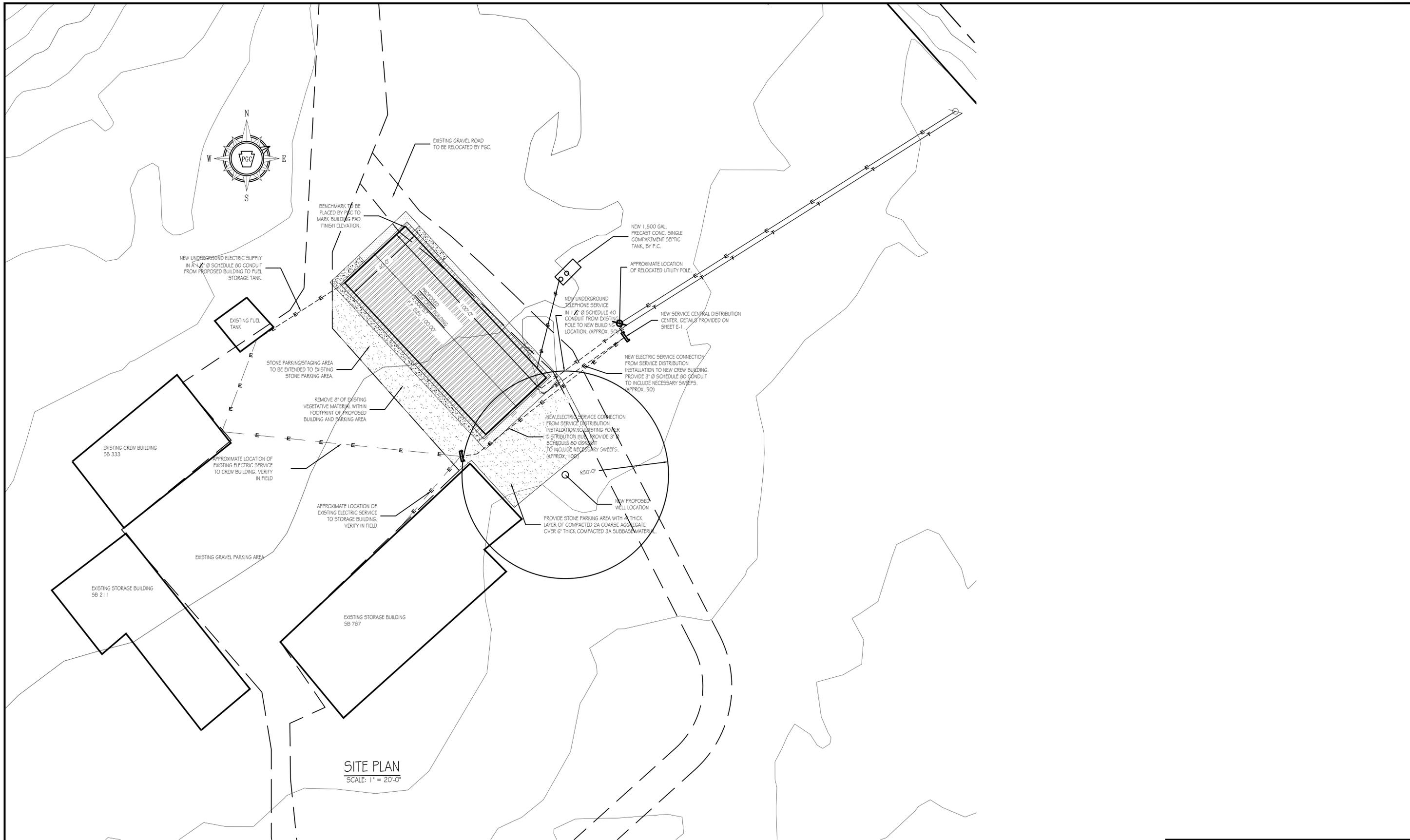
- CS-1 COVER SHEET
- SP-1 EXISTING SITE PLAN
- SP-2 BUILDING SITE PLAN
- A-1 BUILDING FLOOR PLAN
- A-2 ELEVATIONS, SCHEDULES & REFLECTED CEILING PLAN
- A-3 WALL SECTIONS & DETAILS
- A-4 SECTIONS & DETAILS
- P-1 PLUMBING FLOOR PLAN, ELEVATIONS, & DETAILS
- M-1 MECHANICAL FLOOR PLAN & DETAILS
- E-1 ELECTRICAL FLOOR PLAN, SCHEDULES & DETAILS
- E&S-1 EROSION AND SEDIMENT CONTROL PLAN



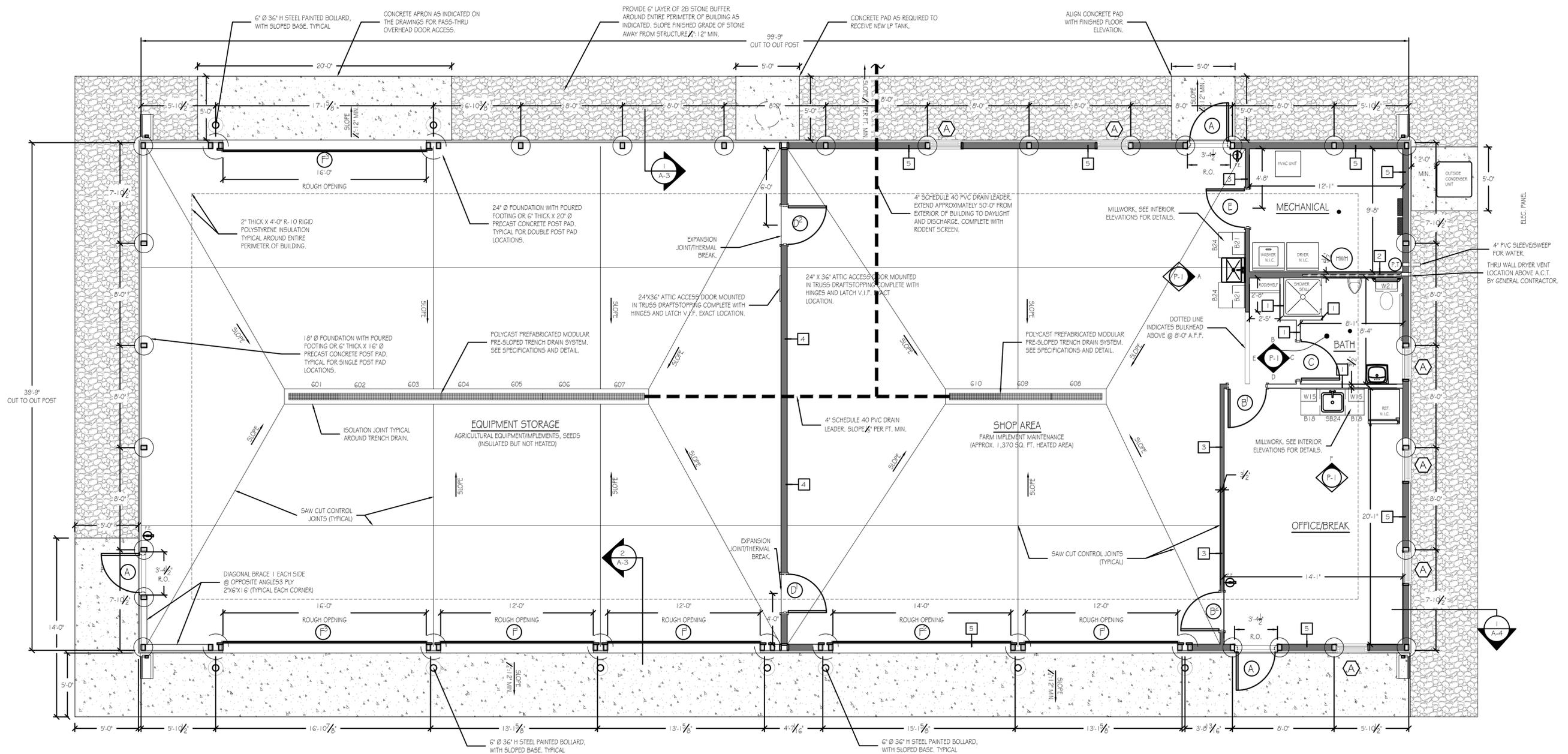
PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS # 050	SOMERSET TOWNSHIP	SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING		
COVER SHEET		
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
	DATE:	8/27/2025
	SHEET NO.	CS-1



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS # 050	SOMERSET TOWNSHIP	SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING		
EXISTING SITE PLAN		
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
	DATE:	8/27/2025
	SHEET NO.	5P-1



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS # 050	SOMERSET TOWNSHIP	SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING		
BUILDING SITE PLAN		
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
	DATE:	8/27/2025
	SHEET NO.	SP-2



FLOOR PLAN

SCALE: 1/4" = 1'-0"

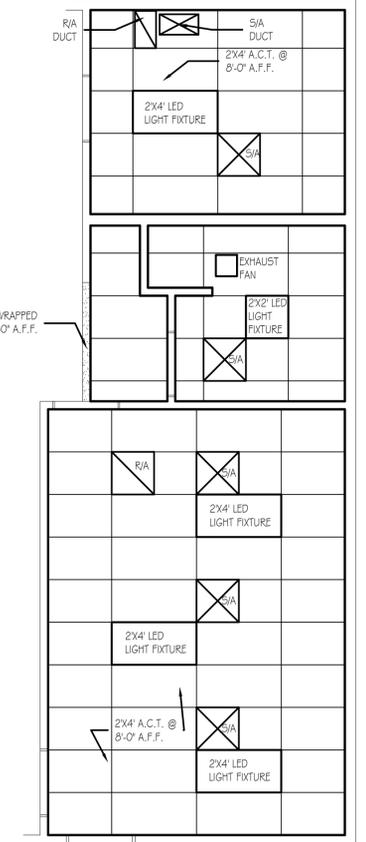
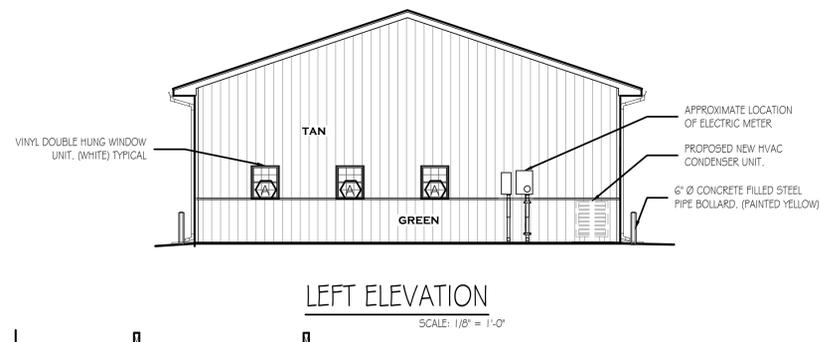
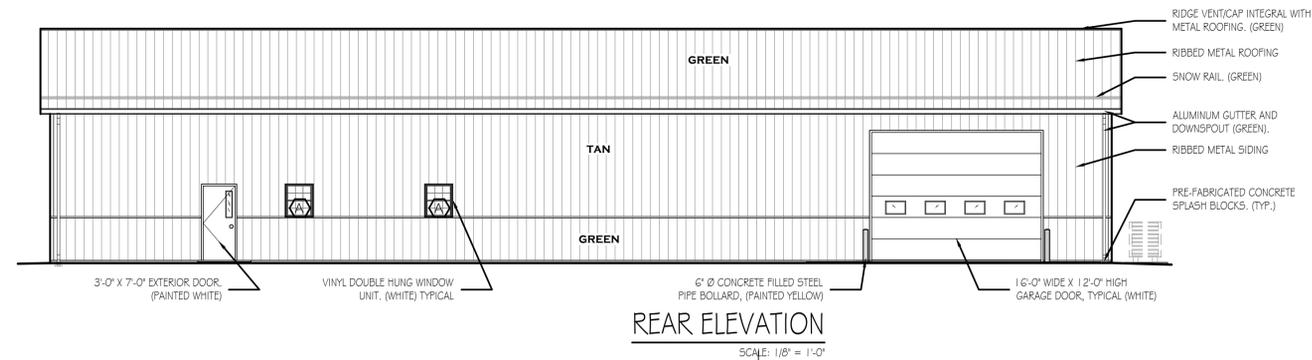
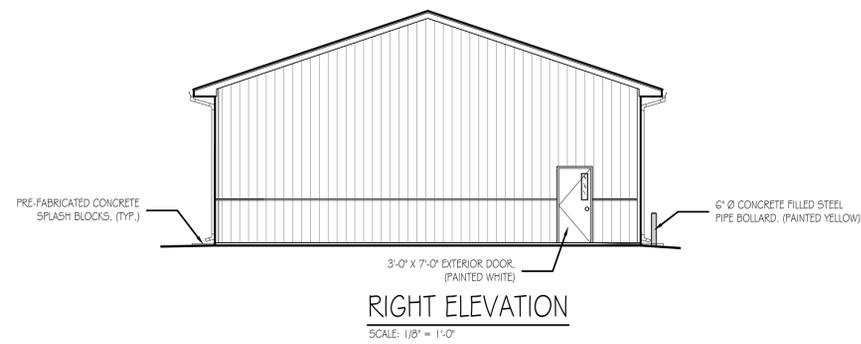
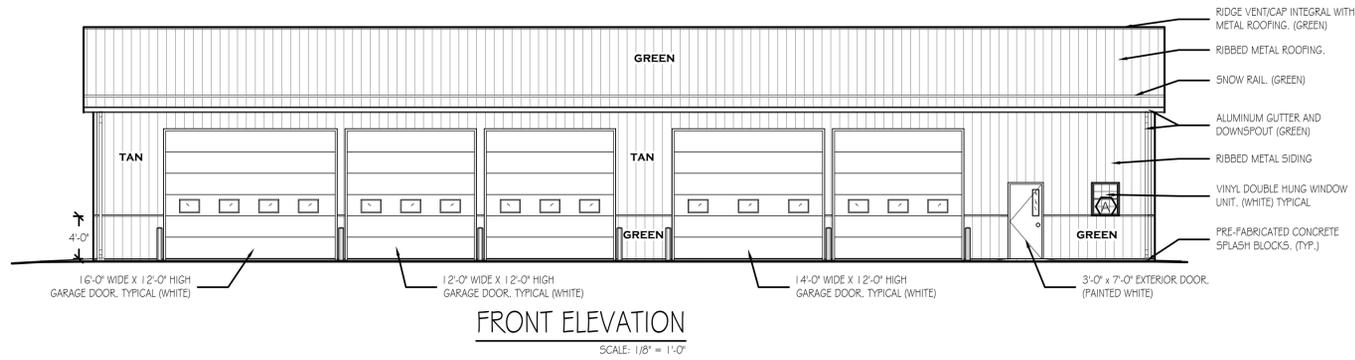


WALL LEGEND:

- 1 2"x4" WOOD STUDS @ 16" O.C. EXTEND TOP OF WALL TO 1'-0" A.F.F. PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR BOTH SIDES.
- 2 2"x6" WOOD STUDS @ 16" O.C. EXTEND TOP OF WALL TO 1'-0" A.F.F. PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR BOTH SIDES.
- 3 2"x4" WOOD STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF ROOF TRUSSES (APPROX ± 13'-9"). PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM SIDES. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE).
- 4 2"x6" WOOD STUDS @ 16" O.C. WITH R-20 BATT INSULATION (FULL HGT.) EXTEND TO UNDERSIDE OF ROOF TRUSSES (APPROX ± 13'-9"). PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO THE CEILING TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE). PROVIDE OSB OR PLYWOOD SHEATHING OVER 1" THICK R-5 INSULATION BOARD FULL HEIGHT TO UNDERSIDE OF TRUSSES. (EQUIPMENT STORAGE SIDE).
- 5 2"x6" WOOD INFILL STUDS BETWEEN LAMINATED SUPPORT COLUMNS/POSTS @ 16" O.C. FULL HEIGHT TO UNDERSIDE OF TRUSSES OR HEADER/TRUSS SEAT. WITH R-20 BATT INSULATION (FULL HGT.) PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM SIDES. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE).



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS # 050	SOMERSET TOWNSHIP	SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING		
FLOOR PLAN		
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
	DATE:	8/27/2025
	SHEET NO.	A-1



MARK	TYPE	MANUFACTURER	ROUGH OPENING	COLOR	QTY.	REMARKS
A	I	VINYL	2'-6" x 3'-0"	WHITE	6	WINDOW UNIT IN BATH TO HAVE BOTTOM SASH TEMPERED GLASS

WINDOW SCHEDULE NOTES:

1) ALL WINDOWS TO BE COMPLETE WITH CLEAR LOW E GLASS W/ ARGON, INSECT SCREENS, GRILLES BETWEEN GLASS, INTEGRAL "J" CHANNEL TRIM AND TEMPERED GLASS AS REQUIRED BY CODE.

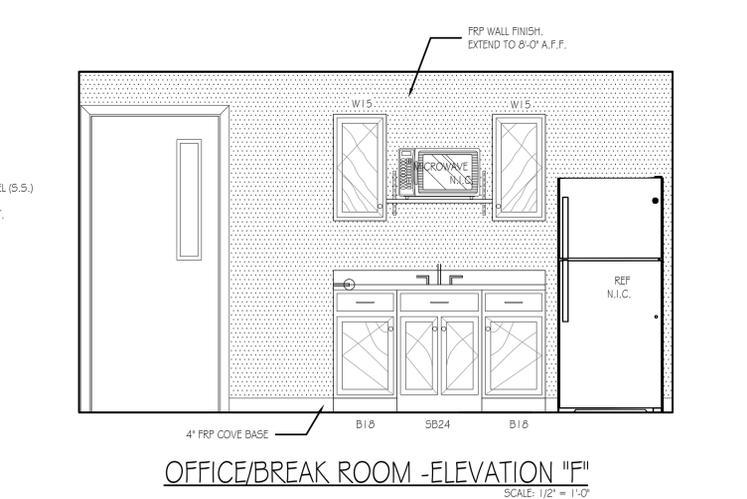
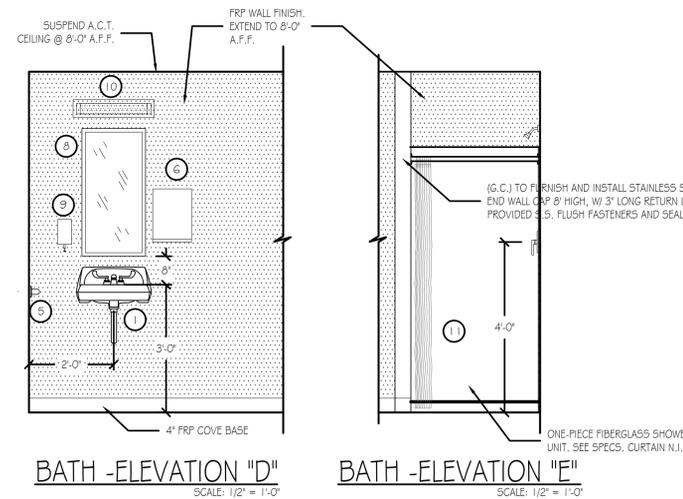
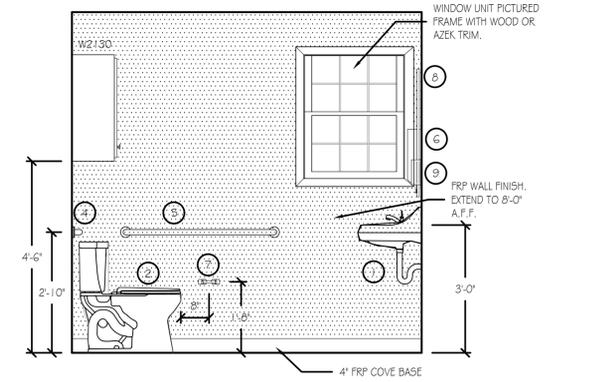
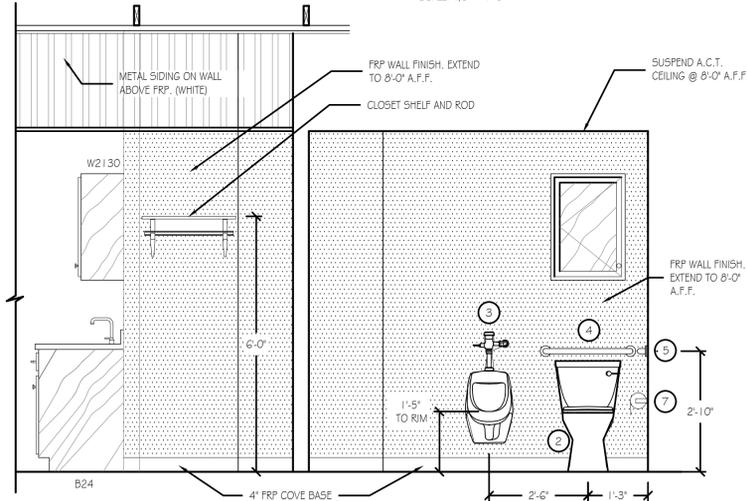
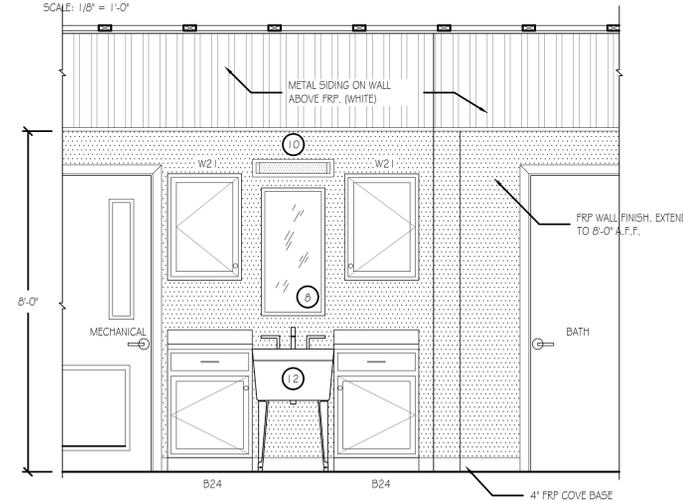
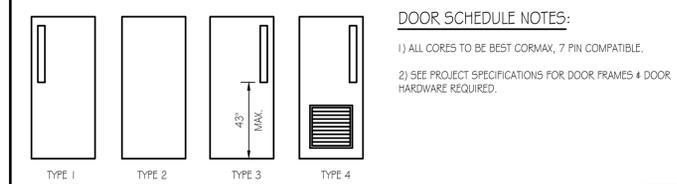
2) EXTERIOR AND INTERIOR WINDOW COLOR TO BE WHITE.

3) SEE SPECIFICATIONS FOR ADDITIONAL WINDOW INFORMATION.

WINDOW SCHEDULE
N.T.S.

MARK	TYPE	WIDTH	HGT.	THK.	HAND	QTY.	REMARKS
A	3	3'-0"	7'-0"	1-3/4"	LHR	3	INSULATED CORE W/ GLASS, PANIC EXIT DEVICE, CLOSER
B ¹	1	3'-0"	7'-0"	1-3/4"	RH	1	NON-INSULATED W/ GLASS & PASSAGE SET
B ²	1	3'-0"	7'-0"	1-3/4"	RHR	1	NON-INSULATED W/ GLASS & PASSAGE SET
C	2	3'-0"	7'-0"	1-3/4"	RH	1	NON-INSULATED W/ PRIVACY SET
D	1	3'-0"	7'-0"	1-3/4"	LHR	1	INSULATED CORE W/ GLASS, PANIC EXIT DEVICE, CLOSER
D ²	1	3'-0"	7'-0"	1-3/4"	RHR	1	INSULATED CORE W/ GLASS, PANIC EXIT DEVICE, CLOSER
E	4	3'-0"	7'-0"	1-3/4"	LHR	1	NON-INSULATED W/ GLASS, VENT & PASSAGE SET
F	O.H.	12'-0"	12'-0"	SEE SPECIFICATIONS		6	INSULATED SECTIONAL OVERHEAD DOOR
F ²	O.H.	14'-0"	12'-0"	SEE SPECIFICATIONS		1	INSULATED SECTIONAL OVERHEAD DOOR
F ³	O.H.	16'-0"	12'-0"	SEE SPECIFICATIONS		1	INSULATED SECTIONAL OVERHEAD DOOR

DOOR SCHEDULE
N.T.S.



BRADLEY CORP. (FOR REF. ONLY)

FIXTURE/ACCESSORY LEGEND

1	SINK (W/FAUCET)	SEE SPECS
2	FLOOR MOUNTED WATER CLOSET	SEE SPECS
3	WALL HUNG URINAL	SEE SPECS
4	GRAB BAR (24" LONG)	MODEL 812
5	GRAB BAR (36" LONG)	MODEL 812
6	TOWEL DISPENSER	MODEL 250-15
7	TOILET TISSUE HOLDER	MODEL 508
8	18" x 36" MIRROR	MODEL 780-1836
9	SOAP DISPENSER	MODEL 655
10	LIGHT FIXTURE	2" INTEGRATED LED
11	ONE PIECE SHOWER UNIT	GELCOATED FIBERGLASS
12	UTILITY SINK (W/FAUCET)	SEE SPECS



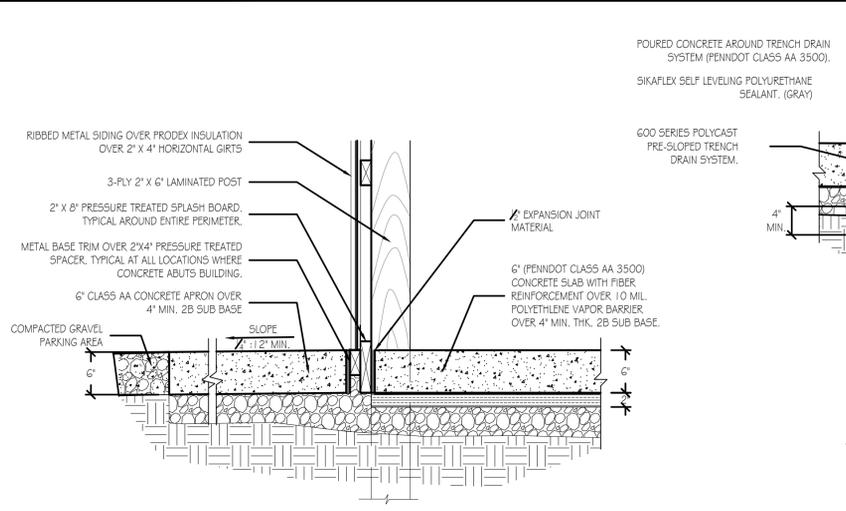
PENNSYLVANIA GAME COMMISSION

STATE GAME LANDS # 050 | SOMERSET TOWNSHIP | SOMERSET COUNTY

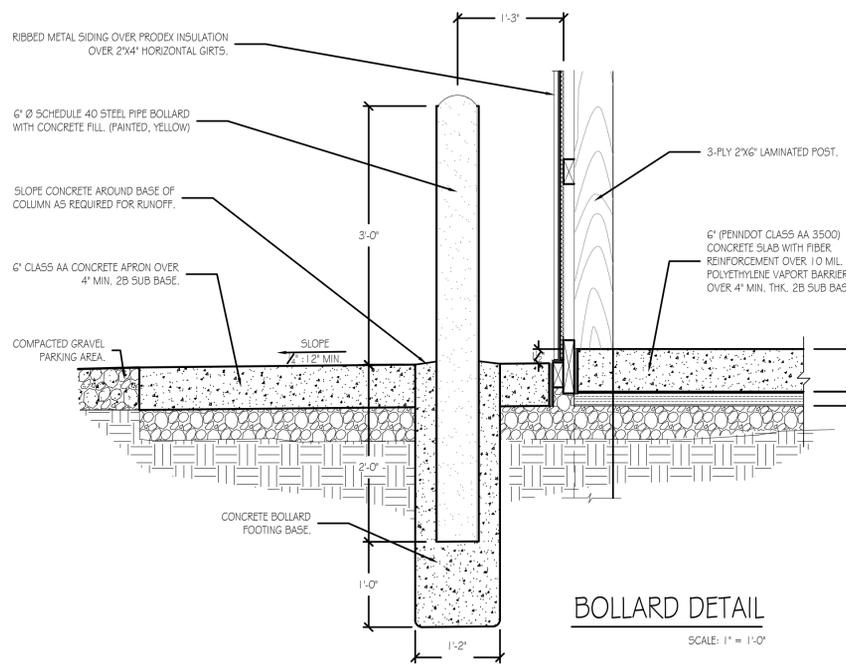
NEW 48' x 100' STORAGE BUILDING

ELEVATIONS, SCHEDULES, REFLECTED CEILING PLAN & INTERIOR ELEVATIONS

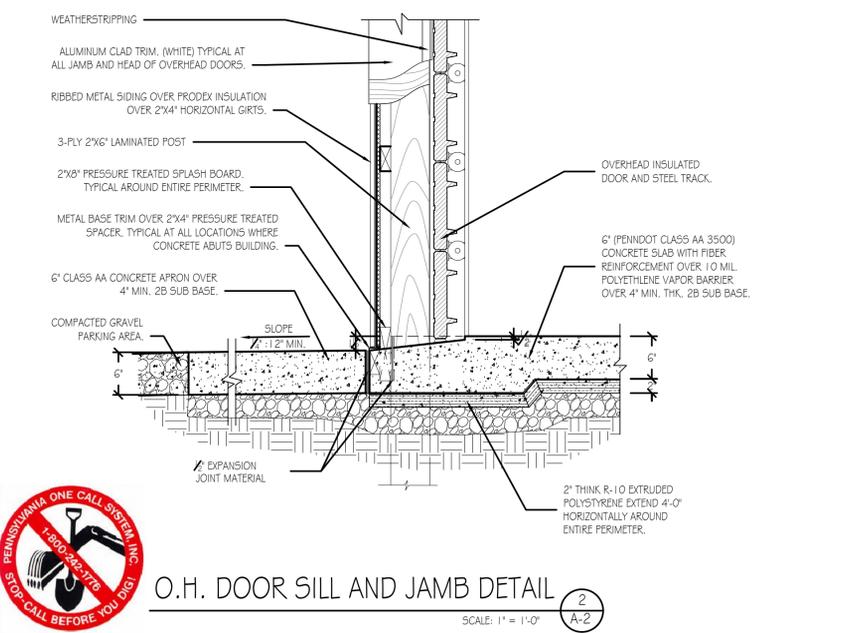
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
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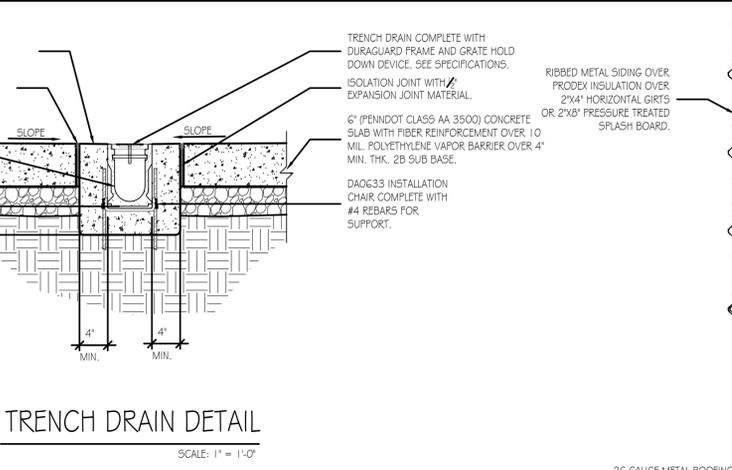
DETAIL @ CONCRETE SIDEWALK
SCALE: 1" = 1'-0"



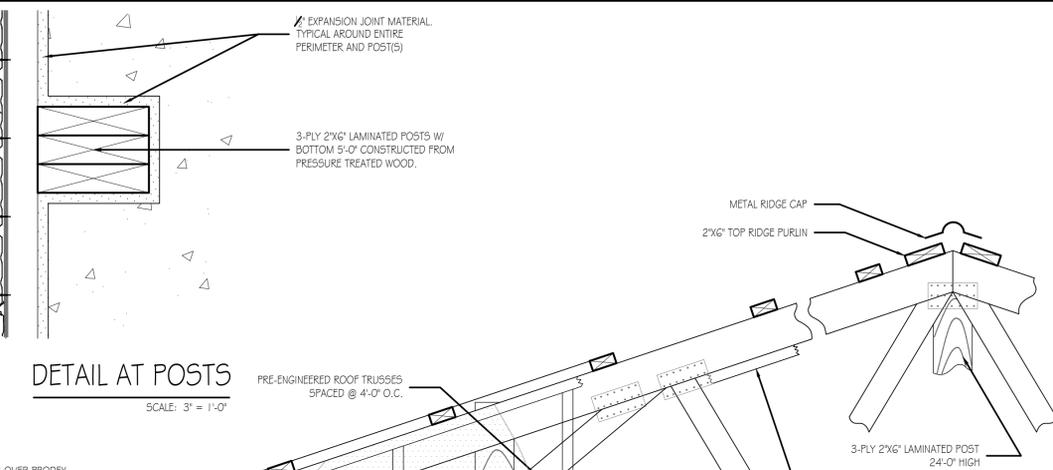
BOLLARD DETAIL
SCALE: 1" = 1'-0"



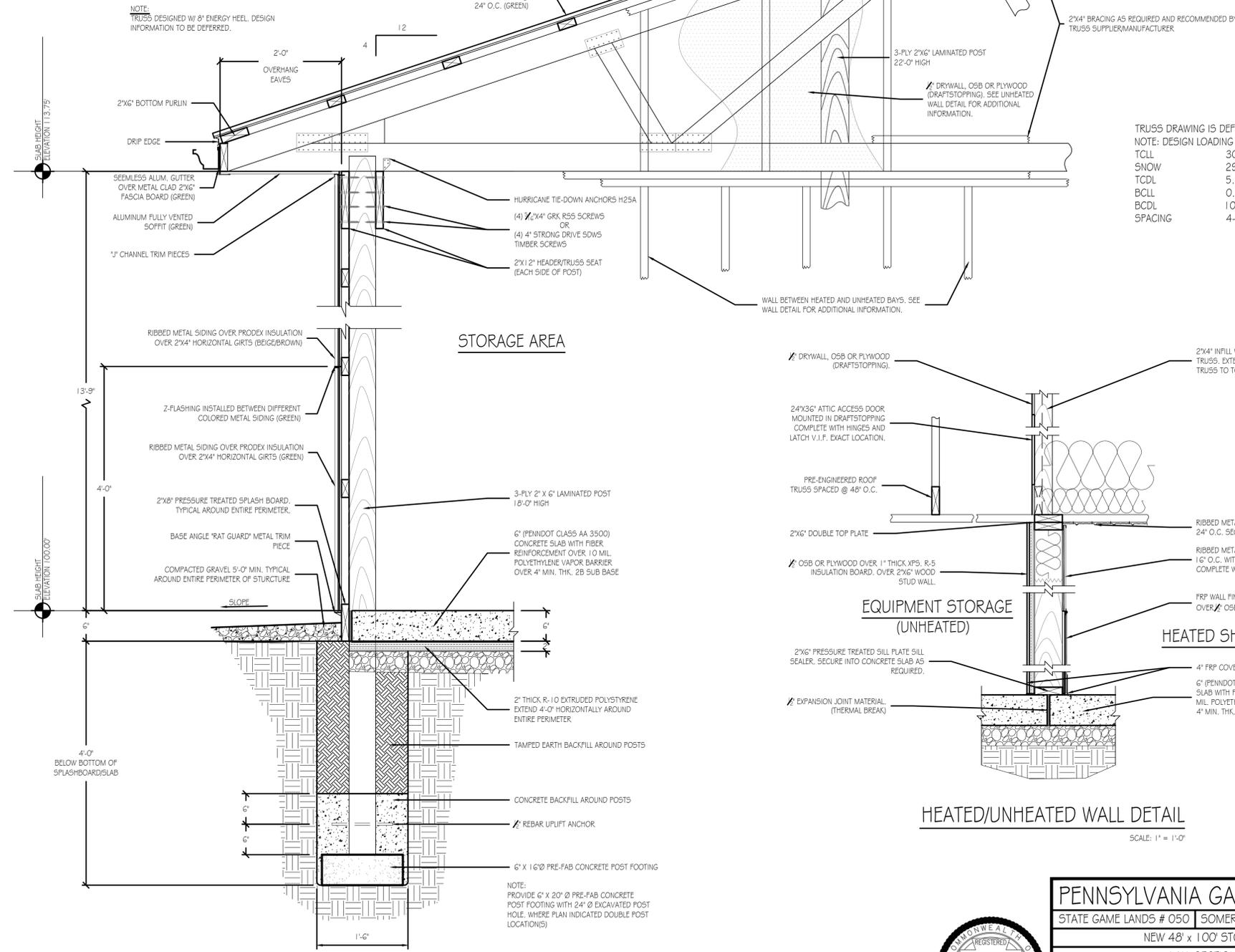
O.H. DOOR SILL AND JAMB DETAIL
SCALE: 1" = 1'-0"



TRENCH DRAIN DETAIL
SCALE: 1" = 1'-0"



DETAIL AT POSTS
SCALE: 3" = 1'-0"



WALL SECTION DETAIL
SCALE: 1" = 1'-0"

TRUSS DRAWING IS DEFERRED.
NOTE: DESIGN LOADING (PSF)

TCLL	30
SNOW	29.75/42
TCDL	5.0
BCLL	0.0
BCDL	10.0
SPACING	4-0-0

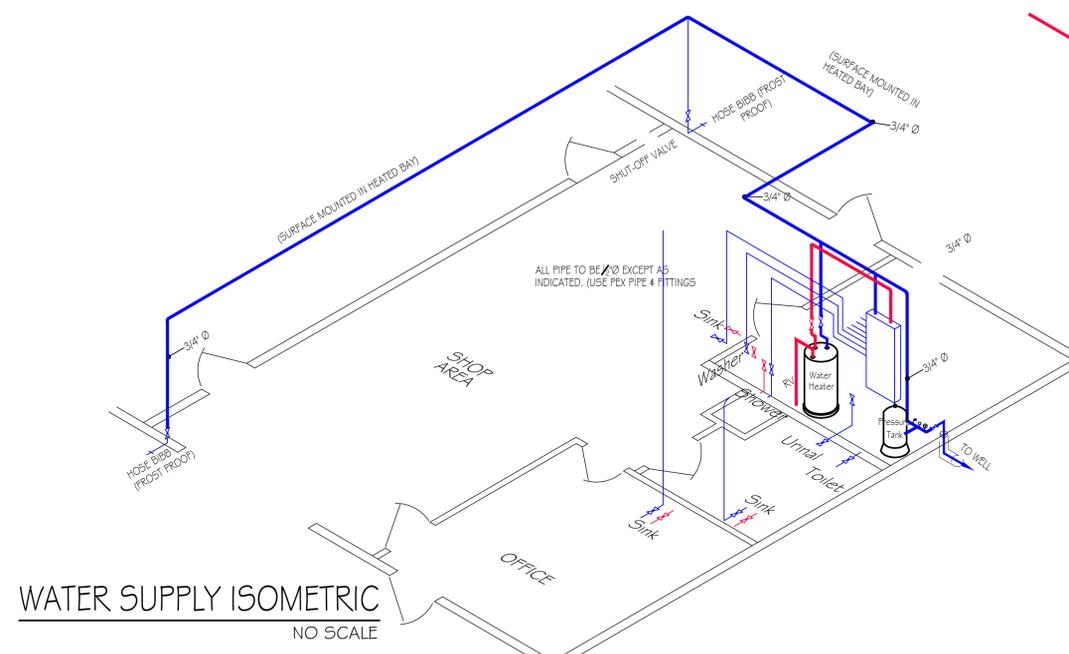
HEATED/UNHEATED WALL DETAIL
SCALE: 1" = 1'-0"



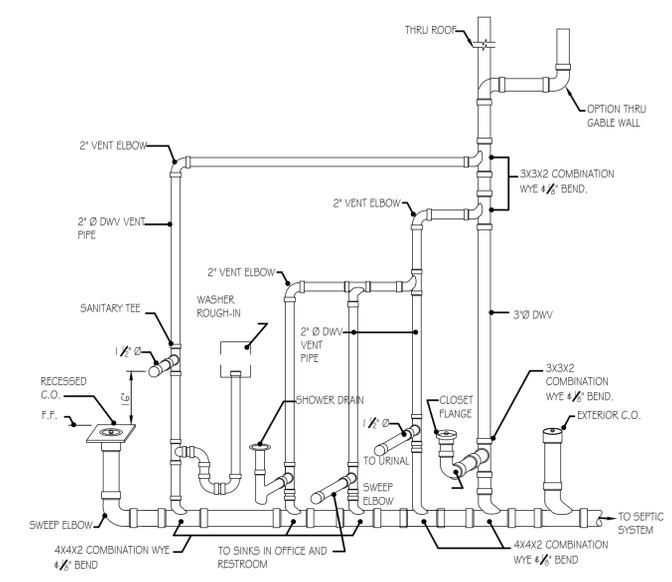
PENNSYLVANIA GAME COMMISSION
STATE GAME LANDS # 050 | SOMERSET TOWNSHIP | SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING

WALL SECTIONS & DETAILS

REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
	DATE:	8/27/2025
	SHEET NO.	A-3



WATER SUPPLY ISOMETRIC
NO SCALE



MAIN SEWAGE SCHEMATIC
NO SCALE

PLUMBING PLAN LEGEND

- DOMESTIC COLD WATER SUPPLY PIPING SHALL BE BLUE NON-OXYGEN BARRIER PEX-A CONFORMING WITH ASTM F876, ASTM F877 AND NSF 1.4.
- DOMESTIC HOT WATER SUPPLY PIPING SHALL BE RED NON-OXYGEN BARRIER PEX-A CONFORMING WITH ASTM F876, ASTM F877 AND NSF 1.4.

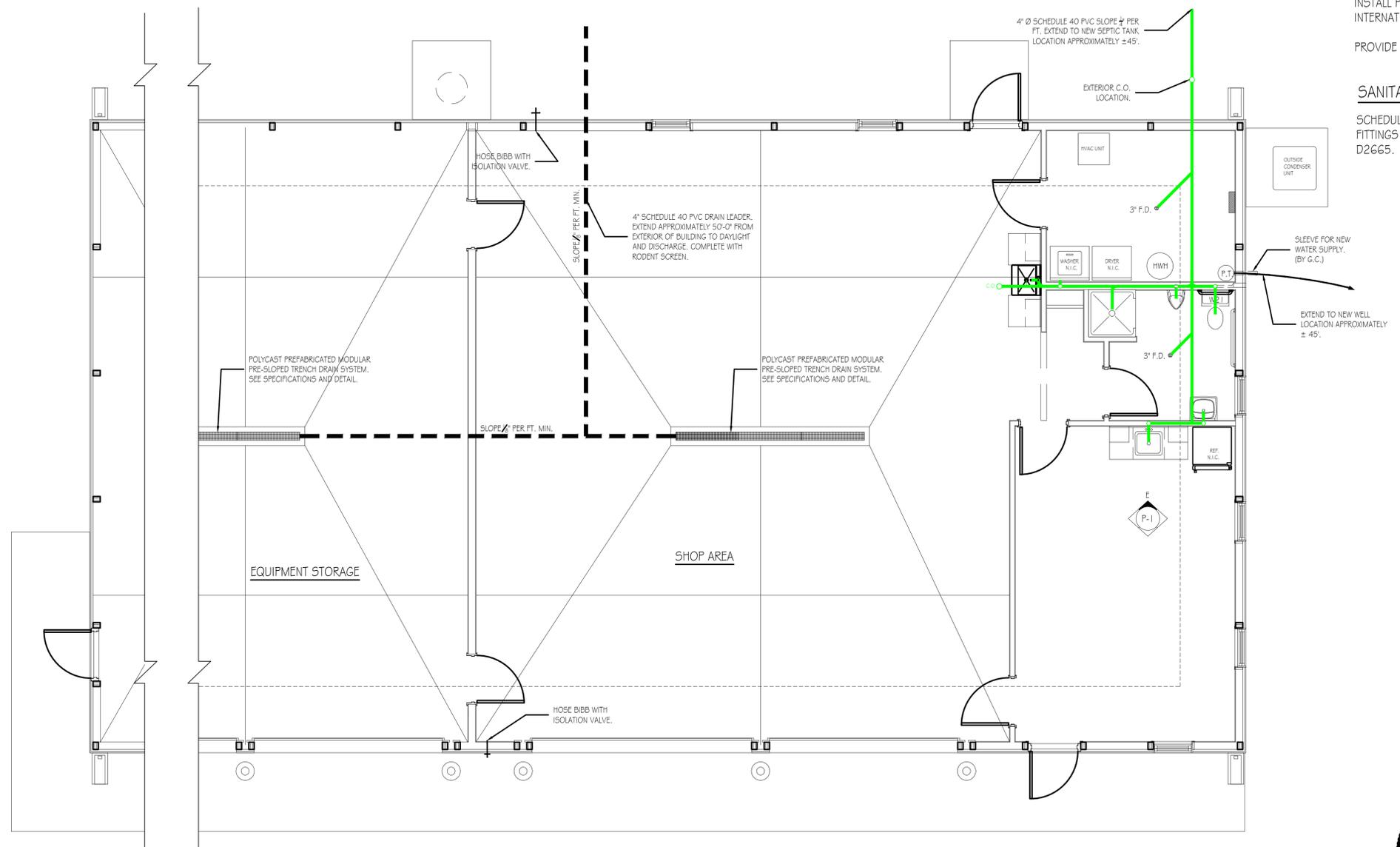
NOTE:
ALL PIPING SHALL BE 1/2" DIAMETER UNLESS NOTED OTHERWISE. FURNISH AND INSTALL FITTINGS AND VALVES APPROVED BY THE PEX-A PIPING MANUFACTURER.

INSTALL PLUMBING PIPING CONFORMING TO ALL APPLICABLE INTERNATIONAL PLUMBING CODES (IPC), 2018 EDITION.

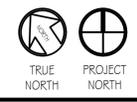
PROVIDE ALL TESTING AS REQUIRED BY CODE OFFICIAL.

SANITARY SEWER PLUMBING PLAN LEGEND

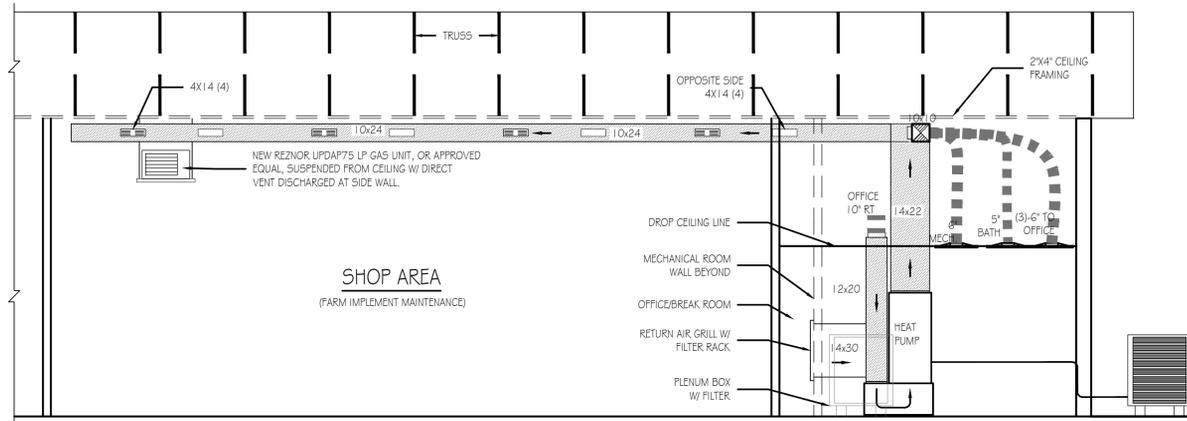
- SCHEDULE 40 PVC SEWAGE DRAIN PIPING AND FITTINGS CONFORMING TO ASTM D1784, D1785 & D2665.



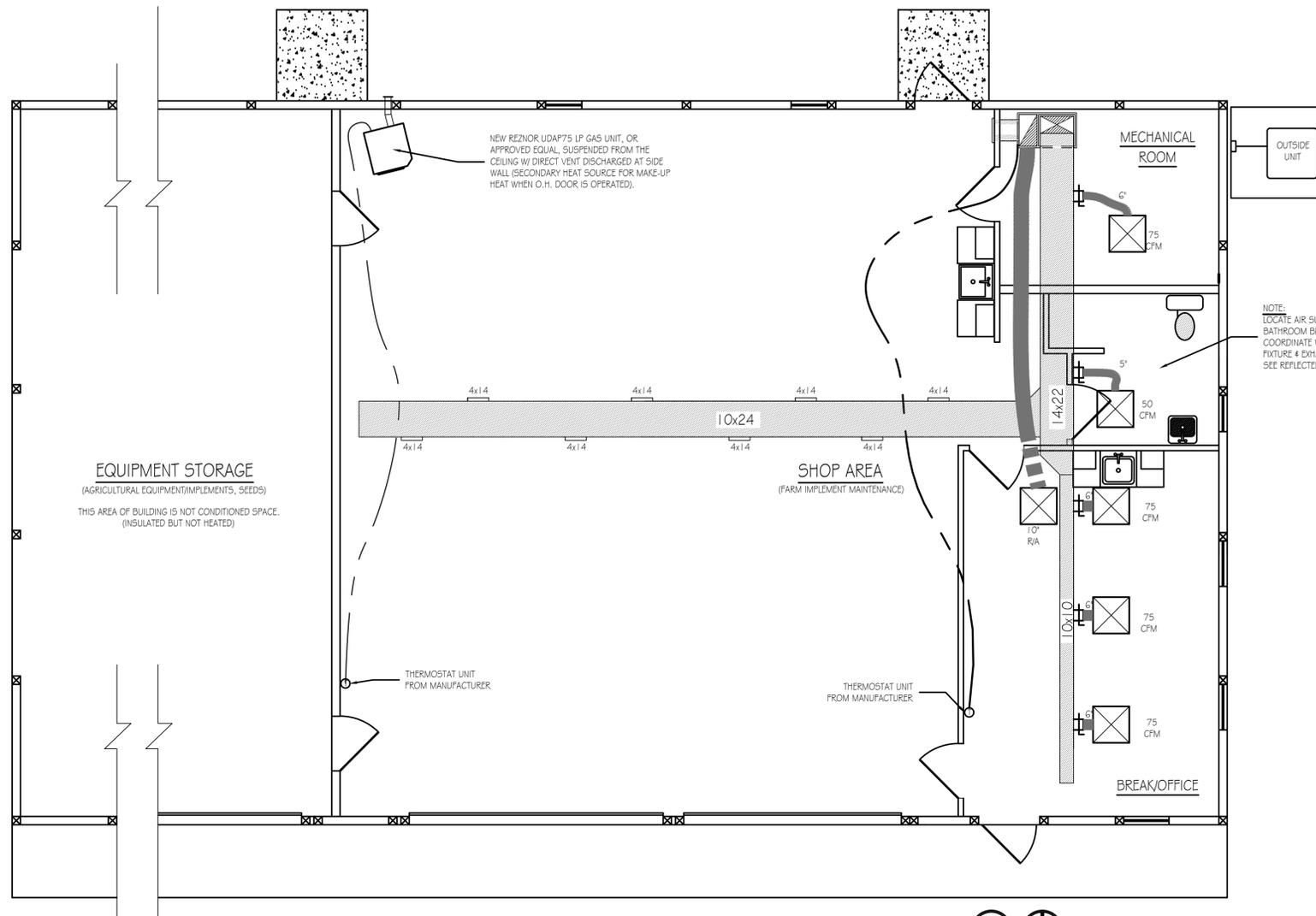
NEW CREW BUILDING - PLUMBING PLAN
SCALE: 1/4" = 1'-0"



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS # 050	SOMERSET TOWNSHIP	SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING		
PLUMBING FLOOR PLAN, ELEVATIONS & DETAILS		
REVISIONS	PROJECT NO.	PGC-050-24-01
	DRAWN BY:	Z. WHITENIGHT
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BUILDING SECTION - MECHANICAL
SCALE: 1/4" = 1'-0"



FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



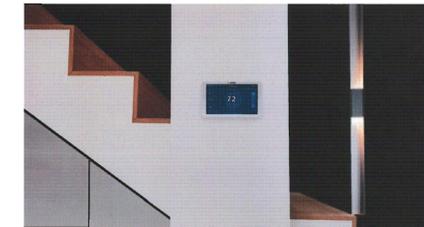
MECHANICAL CONSTRUCTION NOTES: HVAC SYSTEM TO BE A BOSCH HEAT PUMP SYSTEM. LAYOUT OF DUCTS, DUCT SIZES AND DIFFUSERS ARE MEANT TO BE USED AS A GUIDELINE. ACTUAL RUNS, SIZES AND LOCATIONS TO BE DETERMINED BY MANUFACTURER'S MODEL. THE FOLLOWING STEPS SHOULD BE FOLLOWED IN THE DESIGN AND INSTALLATION OF THE HVAC SYSTEM TO ENSURE EFFICIENCY AND COMFORT.

1. DETERMINE ROOM-BY-ROOM AND AIR-FLOWS USING ACCA MANUAL J CALCULATION PROCEDURES (OR SUBSTANTIALLY EQUIVALENT)
2. SIZE DUCT SYSTEM ACCORDING TO ACCA MANUAL D CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
3. SIZE HVAC EQUIPMENT TO SENSIBLE LOAD USING ACCA MANUAL S CALCULATION PROCEDURES (OR SUBSTANTIALLY EQUIVALENT)
4. INSTALL EQUIPMENT & DUCTS ACCORDING TO DESIGN SPECIFICATIONS USING INSTALLATION PROCEDURES FROM SMACNA / MANUFACTURER'S SPECS.
5. INSTALL 50 STATIC AIR PRESSURE DROP ACROSS THE AIR HANDLER IS WITHIN MANUFACTURER AND DESIGN SPECIFICATIONS.
6. PROVIDE BALANCED AIR FLOWS BETWEEN SUPPLY AND RETURN SYSTEMS TO MAINTAIN NEUTRAL PRESSURE.
7. EQUIPMENT AND ASSOCIATED ITEMS MUST BE APPROVED BY PGC HARRISBURG ENGINEERING DIVISION BEFORE START OF INSTALLATION.

FURNISH AND INSTALL A HEAT PUMP TO BE A BOSCH BOVA-GORXB-M155 IDS LIGHT 5 TON OUTSIDE CONDENSER UNIT, W/ BVA-42RCB-M20X IDS PREMIUM 4 TON INDOOR AIR HANDLER/FURNACE AND EHK-15B-15KW MINIMUM BACKUP STAGED ELECTRIC HEAT STRIP. UNITS TO ACHIEVE A MINIMUM 1 @ SEER AND 8.5 HSPF (OR SUBSTANTIALLY EQUIVALENT).

LP GAS PIPING NOTES: THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW RIGID LP GAS PIPING SYSTEM INTO THE BUILDING ENVELOPE THEN CONTINUE WITH CSST FLEXIBLE GAS PIPING, VALVES, PIPE HANGERS, AND ALL MECHANICAL MATERIALS REQUIRED TO CONNECT TO PROPANE TANKS TO NEW SUSPENDED UNIT HEATER. PIPING SPECS ARE AS FOLLOWS:

1. RIGID PIPING - BLACK STEEL PIPE TO COMPLY WITH ASTM A53/A53M, SCHEDULE 40, TYPE E OR S GRADE B CARBON STEEL, COMPLETE WITH ALL FITTINGS TO COMPLY WITH ASME B16.3.
2. FLEXIBLE PIPING - CSST 300 SERIES STAINLESS STEEL STRIP CONFORMING TO ASTM A240 RATED FOR 25 PSI AND HAVE AN ELEVATED PRESSURE RATING OF 125G FOR SIZES UP TO 1/2" AND 25G FOR 1/2" AND 2".



Thermostat Model	Unit Number
5 Inch Touch Screen E54 x 460 Peak	T-8-733-948.809
Support 2 Transformer Systems (2RC and RP)	
2 Wire Required for Installation	
3 Relay Terminals: CL, Y, R, W/E, W2/ALU, GR, HSH	
1 Date Terminal, includes built-in message from Switch Heat Source Heat Pump	
W/E #1 802.11 High @ 2.4GHz	
1 year limited warranty	

NOTE: LOCATE AIR SUPPLY REGISTER IN BATHROOM BELOW DUCT, COORDINATE WITH CEILING LIGHT FIXTURE & EXHAUST FAN LOCATIONS. SEE REFLECTED CEILING LAYOUT.

MINIMUM OUTDOOR AIRFLOW RATE CHART

OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY / SQUARE FOOT	CFM/PERSON	EXHAUST AIRFLOW RATE
BUSINESS-WORK ROOM	281 SQ. FT./2 PERSONS	5 CFM/ 2 PERSONS-10 CFM	-
BUSINESS-BATH	60 SQ. FT./ 1 PERSON	-	110 CFM EXHAUST FAN
BUSINESS-UTILITY	125 SQ. FT./ 1 PERSON	20 CFM/PERSON -20 CFM	-
STORAGE-WORK AREA	1383 SQ. FT./3 PERSONS	10 CFM/ 3 PERSONS -30 CFM	-



PENNSYLVANIA GAME COMMISSION
STATE GAME LANDS # 050 | SOMERSET TOWNSHIP | SOMERSET COUNTY
NEW 48' x 100' STORAGE BUILDING
MECHANICAL FLOOR PLAN & DETAILS

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LOAD CENTER: 200A SERVICE PANEL SCHEDULE
VOLTAGE: 240/120V
SERVICE FEEDER SIZE: 2-#4/0 & 1-#2 AL

Circuit No.	Circuit Breakers		200 AMP Main Service Breaker	Wiring	Conduit
	Poles	Amps			
1,3	2	60	HVAC INSIDE AIR HANDLER UNIT HEAT STRIP	Verify w/ M.C.	Verify
2,4	2	30	HVAC INSIDE AIR HANDLER UNIT	3 - #10	3/4"
5,7	2	40	HVAC OUTSIDE UNIT	3 - #6	1"
6,8	2	20	WELL PUMP	3 - #10	3/4"
9,11	2	30	WATER HEATER	3 - #10	3/4"
10,12	2	30	MECHANICAL ROOM DRYER RECEPTACLE	3 - #10	3/4"
13,15	2	50	220 VOLT OUTLET (WELDER)	3 - #6	1-1/4"
14,16	2	30	220 VOLT OUTLET (AIR COMPRESSOR)	3 - #10	3/4"
17,19	2	50	220 VOLT OUTLET (WELDER)	3 - #6	1-1/4"
18,20	2	50	220 VOLT OUTLET (WELDER)	3 - #6	1-1/4"
21	1	20	SHOP AREA SINK/MECHANICAL RECEPTACLES/WGFI PROTECTION	3 - #12	3/4"
22	1	20	SERVICE PANEL RECEPTACLE	3 - #12	3/4"
23	1	20	OFFICE/BREAK, BATH, & MECH. LIGHTING	3 - #12	3/4"
24	1	20	OFFICE/BREAK SINK, BATH SINK, GFI RECEPTACLES	3 - #12	3/4"
25	1	20	REFRIGERATOR RECEPTACLES	3 - #12	3/4"
26	1	20	MICROWAVE	3 - #12	3/4"
27	1	20	OFFICE/BREAK RECEPTACLES	3 - #12	3/4"
28	1	20	SHOP AREA RECEPTACLES/WGFI PROTECTION	3 - #12	3/4"
29	1	20	SHOP AREA RECEPTACLES/WGFI PROTECTION	3 - #12	3/4"
30	1	20	GAS HEATER	3 - #12	3/4"
31	1	20	SHOP AREA RECEPTACLES/WGFI PROTECTION	3 - #12	3/4"
32	1	20	SHOP ROOM GENERAL LIGHTING	3 - #12	3/4"
33	1	20	EQUIPMENT STORAGE RECEPTACLES	3 - #12	3/4"
34	1	20	EQUIPMENT STORAGE RECEPTACLES	3 - #12	3/4"
35	1	20	EQUIPMENT STORAGE RECEPTACLES	3 - #12	3/4"
36	1	20	EQUIPMENT STORAGE AREA LIGHTING	3 - #12	3/4"
37,38	2	20	GARAGE OPENER RECEPTACLES	3 - #12	3/4"
39	1	20	GASOLINE FUEL PUMP	3 - #12	3/4"
40	1	20	DIESEL FUEL PUMP	3 - #12	3/4"
41-42					

LIGHTING FIXTURE SCHEDULE

MARK	QTY	FIXTURE TYPE	MODEL
A	4	2' X 4' LED PANEL	SIMKAR LDP2450L4OU1
B	13	15.25" X 22" 4 LAMP LED HIGH BAY	LITHONIA IBI115000LM SDOBO MD OZ10 40K 80 CRI
C	2	2' INTEGRATED LED WALL MOUNT VANITY LIGHT (18 WATT)	LITHONIA FMVMTSL 3000K
D	5	SECURITY MOTION, WALL MOUNT/OUTSIDE UNIT	HEATH ZENITH SL-5630-BZ
E	3	EXIT 4 EMERGENCY COMBO LIGHT WBATTERIES & REMOTE HEAD	LITHONIA ECRLEDHO MG WELA LED WP M12
F	1	2' X 2' LED PANEL	SIMKAR LDP2240L4OU1
G	1	11.0 CFM, CEILING MOUNT EXHAUST FAN	BROAN AER 110K

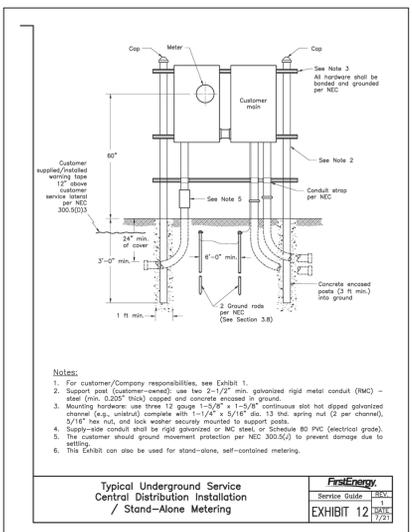
RECEPTACLE & SWITCH MOUNTING HEIGHTS

MICROWAVE	66"
WASHER	36"
DRYER	36"
OFFICE RECEPTACLES AND TELEPHONE	18"
ALL SWITCHES AND OTHER RECEPTACLES	48"

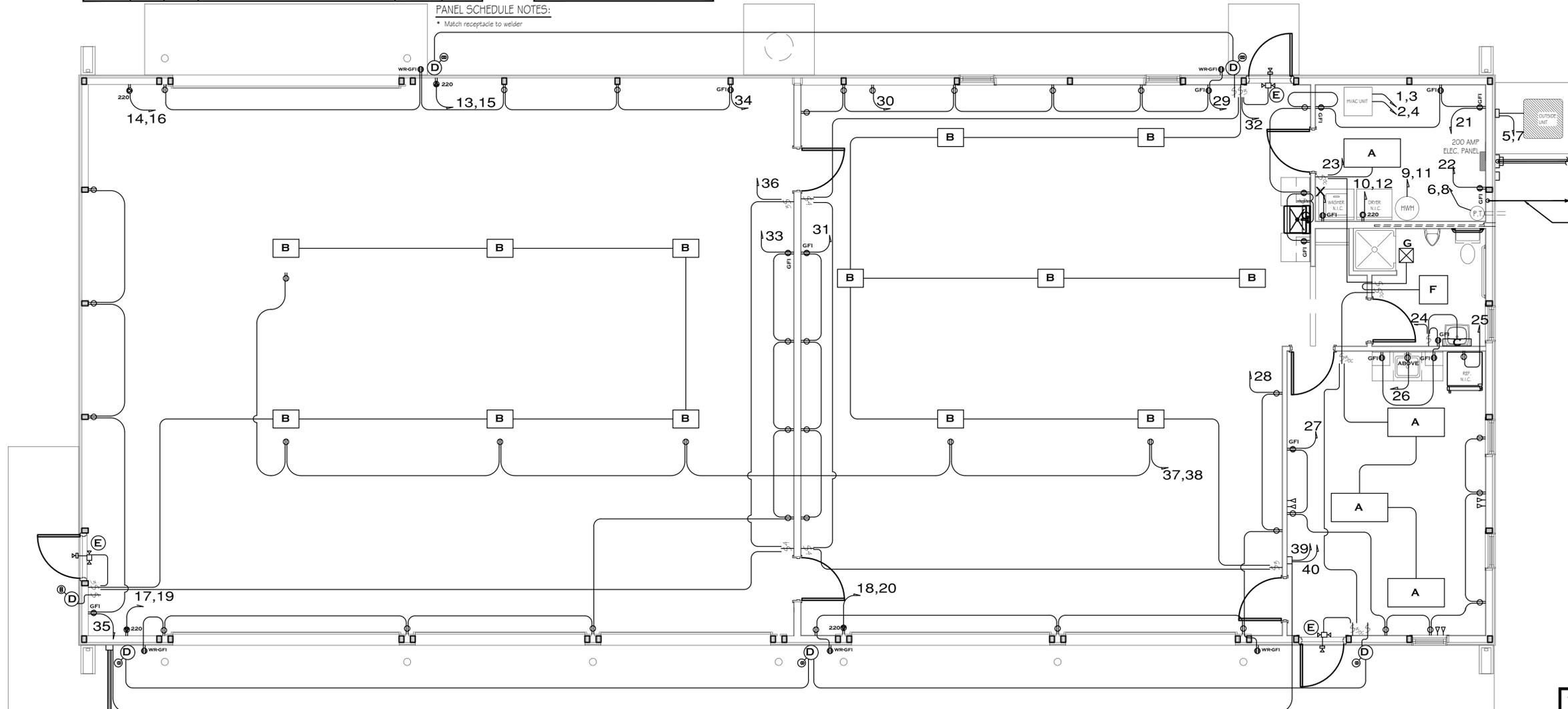
ELECTRICAL WIRING SYMBOLS

- WR-GFI: WATER RESISTANT-RECEPTACLE
- GFI: GFI RECEPTACLE
- DUPLEX OUTLET, SPLIT CIRCUIT
- DUPLEX OUTLET
- 50 AMP, 220 VOLT OUTLET, WELDER (VERIFY TYPE & LOCATION WITH PGC)
- 30 AMP, 220 VOLT OUTLET
- 30 AMP, 220 VOLT OUTLET (DRYER)
- HOME RUN/CIRCUIT #
- TELECOMMUNICATIONS OUTLET
- JUNCTION BOX
- PHOTO CELL
- EXIT LIGHTING WBATTERIES
- SWITCH
- SWITCH, 3 WAY
- SWITCH, 4 WAY
- SWITCH, OCCUPANCY SENSOR
- PRESSURE SWITCH
- WATER PUMP

- GENERAL ELECTRICAL NOTES:**
- FURNISH AND INSTALL SOLID COPPER CONDUCTORS AS SPECIFIED; NO ALUMINUM AND NO STRANDED. MC CABLE IS APPROVED FOR ALL HOME RUN CIRCUITS IF NEATLY INSTALLED.
 - ALL CONDUCTORS FOR 120V CIRCUITS OVER 100' IN LENGTH SHALL BE MINIMUM #10AWG. ALL CONDUCTORS FOR 120V CIRCUITS OVER 150' IN LENGTH SHALL BE MINIMUM #8AWG. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FINAL CIRCUIT LENGTHS AND CORRESPONDING WIRE SIZE TO ENSURE VOLTAGE DROP IS MAINTAINED WITHIN NEC LIMITS.
 - ALL WORK SHALL BE PERFORMED AS REQUIRED BY APPLICABLE SECTION OF THE NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, AND ALL GOVERNING UCC BUILDING CODES AND REGULATIONS.
 - PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70 AND COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS ALL FEEDERS AND BRANCH CIRCUITS, LIGHTING CIRCUITS, RECEPTACLE CIRCUITS SINGLE PHASE MOTOR AND APPLIANCE BRANCH CIRCUITS, ARMORED AND METAL-CLAD CABLE RUNS AND AS REQUIRED BY NFPA 70.
 - PROVIDE ALL HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS, INCLUDING STEEL SLOTTED SUPPORT SYSTEMS, CONDUIT AND CABLE SUPPORT DEVICES, SUPPORTS FOR CONDUCTORS IN VERTICAL CONDUIT. HANGERS AND SUPPORTS SHALL HAVE A FLAME RATING OF CLASS 1 AND BE SELF-EXTINGUISHING ACCORDING TO ASTM D 635.
 - PROVIDE CAT6 WIRE LABELED AND RAN FROM EACH DATA BOX TO MECHANICAL ROOM. PROVIDE 10' ADDITIONAL COILED LENGTH IN MECHANICAL ROOM FOR EACH RUN.
 - MOUNT COMBINATION EXIT/EMERGENCY LIGHTING UNITS TO THE LIGHTING BRANCH CIRCUIT IN THE ROOM IT IS SERVING ON THE LINE SIDE OF ANY SWITCHES.



PANEL SCHEDULE NOTES:
 * Match receptacle to welder



U.G. TELEPHONE/COM SERVICE LINES, BY OTHERS

Trench Details - Direct Buried Cables

TABLE - MINIMUM COVER REQUIRED PER CODE (INCHES)

Voltage (kV)	Direct Burial	Single Parallel	Right of Way	Street	Front	Direct Burial
0 - 600 V	24	0	18	24	24	24
600 V - 22 kV	36	0	18	24	24	30
22 kV - 69 kV	36	0	24	24	24	30

Notes: (1) Trench depth requires an additional section of cover to allow for rotation in final grade. (2) For cables installed beneath roads under Power Distribution, cables must be installed in conduit and have a minimum of 24 inches of cover.



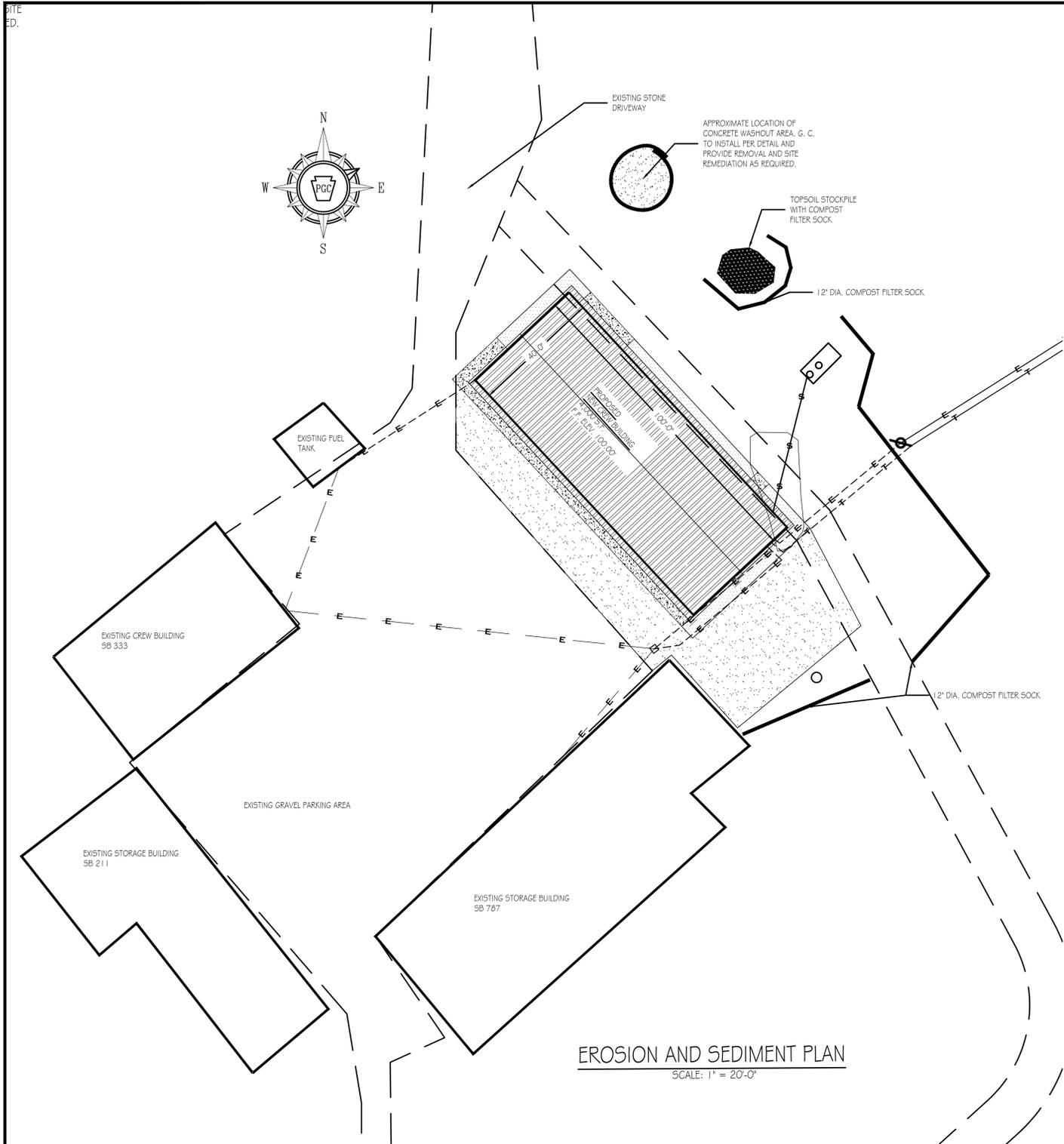
U.G. POWER SUPPLY TO EXISTING FUEL STORAGE TANK FOR ELECTRIC PUMPS AND LEAK DETECTION SYSTEM.

FLOOR PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"



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 STATE GAME LANDS # 050 | SOMERSET TOWNSHIP | SOMERSET COUNTY
 NEW 48' x 100' STORAGE BUILDING
 ELECTRICAL FLOOR PLAN, SCHEDULES & DETAILS

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MAINTENANCE OF E&S CONTROL DEVICES

THE SOIL EROSION AND SEDIMENTATION CONTROLS UTILIZED IN THE DEVELOPMENT OF THIS PLAN SHALL BE ROUTINELY MAINTAINED IN ORDER TO KEEP THEM FUNCTIONING PROPERLY UNTIL SITE STABILIZATION OCCURS. THE CONTRACTOR SHALL PERFORM CERTAIN PERIODIC DUTIES IN ORDER TO ASSURE PROPER CONTROL. MAINTENANCE OF THE VARIOUS EROSION AND SEDIMENTATION CONTROLS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING GENERAL MAINTENANCE PROCEDURES OUTLINED BELOW.

MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION MEASURES AFTER EACH SIGNIFICANT RUNOFF EVENT AND ON A WEEKLY BASIS BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND SEDIMENTATION CONTROL AND WHO HAS SITE SUPERVISION RESPONSIBILITIES, TO ASCERTAIN THAT THE EROSION CONTROL MEASURES ARE OPERATIONAL AND EFFECTIVE IN PREVENTING SEDIMENT FROM LEAVING THE SITE. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE: A SUMMARY OF SITE CONDITIONS, BMPs AND COMPLIANCE, AND THE DATE, TIME, AND NAME OF THE PERSON CONDUCTING THE INSPECTION. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INCLUDING THE COMPLIANCE ACTIONS, DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG SHALL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE CONSERVATION DISTRICT UPON REQUEST.

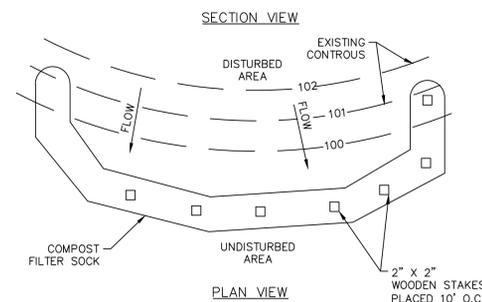
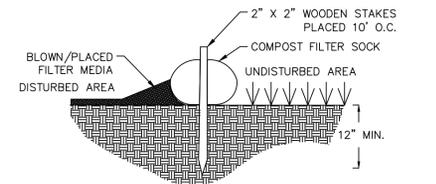
MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS DEEMED NECESSARY BY THE ENGINEER, TOWNSHIP OFFICIAL, OR COUNTY CONSERVATION DISTRICT REPRESENTATIVE IN ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY A STORM PRIOR TO STABILIZATION.

FILTER SOCK:

1. THE FILTER SOCK SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP THE DEVICES FUNCTIONAL. IN ALL CASES, REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 ABOVE THE GROUND HEIGHT OF THE DEVICE.
3. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR OR BASE SHALL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIAL.
4. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FILTER SOCK.
5. ANY DEBRIS ACCUMULATED AT SILT SOCK BARRIERS SHALL BE REMOVED AND PROPERLY DISPOSED IN A RESPONSIBLE MANNER. BARRIERS SHALL BE CHECKED AND REALIGNED OR RESET AS REQUIRED. ANY DEBRIS OR SOLID WASTE MATERIAL ACCUMULATED FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED LANDFILL. CONSTRUCTION WASTE SHALL NOT BE BURIED ON THE SUBJECT SITE.

STOCKPILE AREA:

1. IMMEDIATELY APPLY TEMPORARY SEEDING AND MULCH TO THE STOCKPILE AREA TO STABILIZE.
2. COMPOST SOCK MUST BE PLACED ON THE DOWNSLOPE SIDE OF THE STOCKPILE AREA.
3. THE STOCKPILE SHALL BE A MAXIMUM OF 35' IN HEIGHT WITH AND HAVE MAXIMUM 2:1 SLOPES.



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

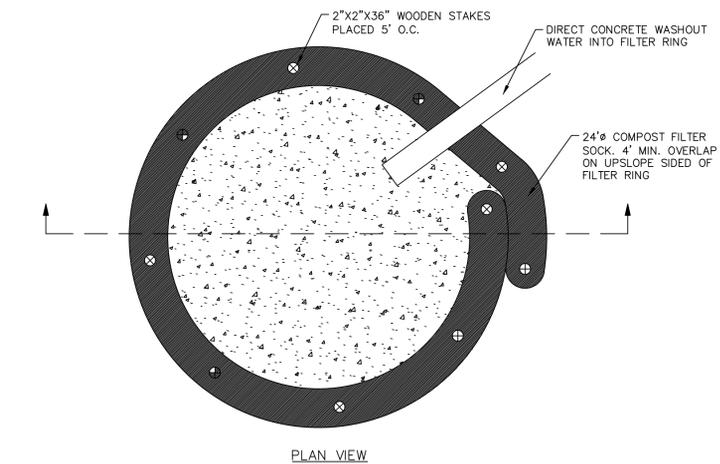
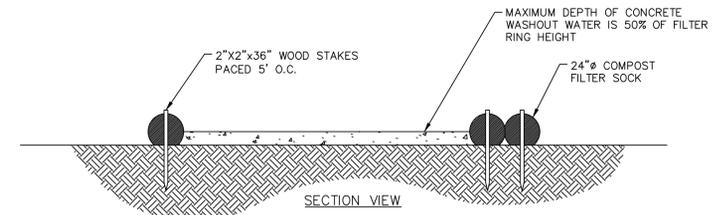
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCK SHALL BE PLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

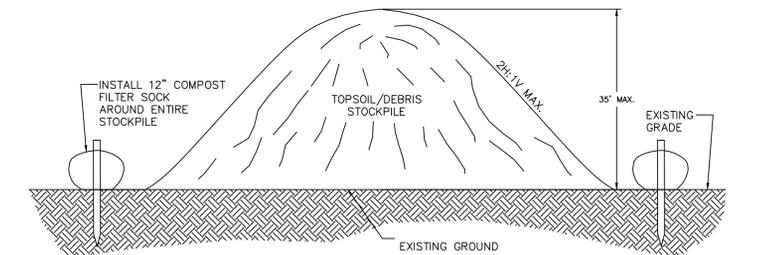


NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT DETAIL

NOT TO SCALE



NOTES:

1. ANIONIC PAM MAY BE USED TO TEMPORARILY STABILIZE TOPSOIL STOCKPILES; HOWEVER, ANIONIC PAM MAY LOSE ITS EFFECTIVENESS IN AS LITTLE AS 2 MONTHS. THEREFORE, REAPPY MIXTURE AS NECESSARY.

TOPSOIL / DEBRIS STOCKPILE

NOT TO SCALE



PENNSYLVANIA GAME COMMISSION		
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EROSION AND SEDIMENT CONTROL PLAN		
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