ADDENDUM
NO. 1

August 4, 2020

VALPARAISO HIGH SCHOOL WEST CAMPUS IMPROVEMENTS
Valparaiso, IN 46385

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated July 24, 2020, by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Proposal Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 and attached Addendum No. 1 from Gibraltar Design dated August 3, 2020 consisting of 4 pages, Specification Section 13 34 16 - Bleachers, Specification Section 32 31 13 - Chain Link Fences and Gates, and 17 drawings.

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for **Valparaiso High School West Campus Improvements** for Valparaiso School Corporation, Valparaiso, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original BID CATEGORY NO. Documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 06 20 00 Finish Carpentry**
   A. Add Paragraph 2.2 O. to read: "L.P. Smart Siding, or approved equal, Panels, soffit, and trims as indicated on Drawings."
2. **Specification Section 08 33 00 Rolling Doors and Grilles**
   A. Delete Paragraphs 2.2 B.2 and 2.3 D. in their entirety.
3. **Specification Section 13 34 16 Bleachers**
   A. Replace Specification Section 13 34 16, Bleachers, with Specification Section 13 34 16 included in this Addendum.
4. **Specification Section 23 23 00 Refrigerant Piping and Accessories**
   A. Add Paragraph 2.01.D to read as follows:

   "D. At Contractor's option, pre-insulated refrigerant piping line set coils can be used downstream of the Refrigerant Manifold Controller. Line sets shall be insulated with minimum of ¾" closed cell insulation and provided with External LDPE covering
5. **Specification Section 32 18 12 Synthetic Turf System**
   A. Revise Paragraph 2.4 A. and Add Paragraphs 2.4 B. and 2.4 C. as follows:

   "A. Baseball/Softball Equipment – provide under Base Bid and Alternate Bid Scope respectively, supply and install the following equipment as manufactured by Schutt Sports, or approved equal

   1. Ground Anchor Mounts and 2-sets of Base Plug Indicators for Softball.
   2. Mushroom Plugs for Baseball.
   3. Four Sided Professional Pitching Rubber.
   4. Jack Corbett MLB Hollywood Bases – Two (2) Sets.
   5. Two (2) Sets of Pro Home Plates with Ground Anchors.

   B. Softball Equipment:

1. Portable Baseball Pitcher's Mound, as manufactured by Sportsfield Specialties, Inc., or approved equal, Model #PPRC, 18' Diameter.
2. Porta-Pitch Cart for transport of Pitcher's Mound.

B. 4" diameter, 20' Foul Pole with Wing, as manufactured or supplied by Sportsfield Specialties, Inc., or approved equal, Model #FPW420 with 30" ground sleeve.

C. Dugouts Support Equipment:

1. Aluminum Storage Unit; Helmet Cubby, Bat Bin, and Side Storage as manufactured and supplied by Sportsfield Specialties, Inc., or approved equal, Model #SUAHCBBSS Stand-alone unit, 16 Helmut and 8 Bat Storage positions. Quantity – Two for each Dugout, Thus Four (4) for Softball and Four (4) for Baseball (Alternate).
2. Equipment Hooks: As manufactured by Bobrick, or approved equal, Model #B-233. Quantity – refer to drawings."

6. Specification Section 32 31 13 Chain Link Fences and Gates

A. Replace Specification Section 32 31 13, Chain Link Fences and Gates, with Specification Section 32 31 13, included in this Addendum.

DRAWINGS

7. Sheets S202 and S204

A. Refer to two (2) revised, Full Size Drawing Sheet included in this Addendum showing the Tennis Platform and Entrance Gate.

8. Sheet G-101

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the following revision:

1. Sheet Index: Add A-303 Tennis Platform and Entrance Gate Exterior Elevations.

9. Sheet A-102

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the following revisions:

1. Add Entrance Gate Architectural Floor Plan and Tennis Platform Architectural Floor Plan.
2. Add Plan Notes 26 through 33.

10. Sheet A-302

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the following revision:

1. Revise Section Cuts on Dugout Elevation 1 & 2

11. Sheet A-302

A. Add new Full-Size Drawing Sheet A-302, included in this Addendum.

12. Sheet A-402

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the added Sections 7 and 8.

13. Sheet A-403

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the added Section 7.

14. Sheet A-501

A. Refer to revised Full-Size Drawing Sheet included in this Addendum for the following revisions:

1. Add Detail 11.
2. Revise Detail 7.

15. Sheet A-801

B. Refer to revised Full-Size Drawing Sheet included in this Addendum for the following revisions:

1. RT1 and SC1 to be added to the finish legend.
2. EB1 and C1 to be edited in the finish legend.
3. In Room A-109, A-108, A-131, A-132, A-133 change finish B1 to finish EB1.
4. In Room B-201, change finish SC1 to finish RT1.
5. In Room A-117, add keynote 7.

16. Sheet E-201

A. Refer to Full Size Drawing Sheet included in this Addendum for the following revisions:

1. Correction to power circuits for ECH-1 in Concessions A-101.
2. Correction to the wire sizes serving the EUH's in Storage A-112.
3. Clarifying power circuits for existing ice makers in Storage A-112.
4. Deleting the Main Disconnect and locating the New Main Distribution Panel "MDP" in Storage A-112 in lieu of the Mechanical Room A-119.

17. Sheet E-401

A. Refer to Full Size Drawing Sheet included in this Addendum for the following revisions:

1. Mechanical A-115:
    a. Modifications to the electrical equipment layout.
    b. Adding electrical connections to the temperature control panel and VFR controller.

18. Sheet E-602

A. Refer to Full Size Drawing Sheet included in this Addendum for the following revisions:

1. Modifications to panelboards.

19. Sheet E-603

A. Refer to Full-Size Drawing Sheet included in this Addendum the following revisions to Relay Schedule:

1. Change the control voltage on Relays BBR1-BBR-8 to 120 volts and change the coil circuit to AFLD1-8.
2. Change the control voltage on Relays SBR1-SBR-5 to 120 volts and change the coil circuit to AFLD1-10.

20. Sheet ES102

A. Refer to Full Size Drawing Sheet included in this Addendum for the following revisions:

1. Showing new routing for secondary feeder to New Main Distribution Panel "CHDP".

21. Sheet ES103

A. Refer to Full Size Drawing included in this addendum for the following revisions:

1. Modifying some of the plan notes.

22. Sheet E-701

A. Refer to Full Size Drawing Sheet included in this Addendum for the following revisions:

1. Deleting Main Disconnect and modifying incoming electrical service feeder.

Pages 1 through 4, inclusive, Specification Sections 13 34 16 and 32 31 13; and Seventeen (17) full-size Drawings constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\20-130 Valparaiso CS - VHS West Campus Improvements\Specs\AD01.doc

SECTION 13 34 16
BLEACHERS

1 General

1.1 Design Criteria

A. The design shall be in accordance with the best engineering principles and shop practice. The stand shall be designed to support in addition to its own weight:

1. A uniformly distributed live load of not less than 100 pounds per square foot of gross horizontal projection of the Grandstand and Press Box.

2. Grandstand shall be designed to withstand, with or without live loads, the horizontal and uplift pressures due to the wind.

3. A horizontal swaying force applied to the seats, in a direction parallel to the length of seats, of 24 pounds per foot.

4. A horizontal swaying force applied to the seats, in a direction perpendicular to the length of seats, of 10 pounds per foot.

5. All seat and footboard members shall be designed for live loads of not less than 120 pounds per linear foot.

B. The Grandstand shall be designed and assembled so that the maximum expansion, contraction, settlement, or misalignment likely to occur will not cause stresses in excess of those permissible.

C. Guard rails shall be capable of sustaining a vertical load of 100 pounds per linear foot and a horizontal thrust of 50 pounds per foot acting outwardly at the top of the rail.

D. Seismic Performance: Design and engineer bleacher systems capable of withstanding the effects of earthquake motions determined according to the building code in effect for this Project or ASC 7, “Minimum Design Loads for Buildings and Other Structures”: Section 9, “Earthquake Loads,” whichever is more stringent.

E. Owner verifies that the applicable building code is the Indiana Building Code, 2017 edition.

1.2 Related Sections

A. Section 03 30 00 – Concrete.

1.3 Quality Assurance

A. Seating shall be designed to meet or exceed all required federal, state, and local building and fire codes.

B. Manufacturer: Company specializing in spectator seating with a minimum of 10 years experience in manufacturing Grandstand and Press Box. All required structural steel shall be manufactured by a steel fabricator who has the personnel, organization, experience, procedures, knowledge, equipment, capability, and commitment to produce fabricated structural steel of required quality for Conventional and Complex Steel Structures and shall be certified by the American Institute of Steel Construction, Inc. (AISC) or follow a quality assurance program certified by the AISC.

C. Engineer Qualifications: The Bleachers to be designed under the supervision of, and approved by, a professional engineer registered in the state of Indiana and all submittal drawings shall bear his stamp.

2 Products

2.1 Bleachers- Acceptable Manufacturer

A. Basis of Design: Southern Bleacher Company, Graham, Texas.

B. Acceptable Manufacturers:

1. Dant-Clayton Corporation, Louisville, Kentucky.
2. Outdoor Aluminum, Inc., Geneva, Alabama.
3. Southern Bleacher Company, Graham, Texas.

2.2 Technical Design

A. Unit Type A: Softball

Description	Base Bid
Number of Rows	6
Length	41’-0”
Type of Understructure:	
Aluminum Tube Framing – Manufacturer’s Design	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards	X
Riser Height	6”
First Row Seat Hieght	12”
Riser Finish:	
Clear Anodized	X
Tread Depth each row	24” to 26”
Tread Depth Last Row	30”
Tread Type:	
Aluminum 2 x 10 mill finish	X

Description	Base Bid
Seat Type:	
Aluminum 2” x 12” with Radius Comfort Edge	X
Seat Height above Tread	17”
Bench Seat Finish:	
Clear Anodized	X
Type of Guardrail:	
Picket	X
Type of Handrail:	
Clear Anodized Aluminum	X
Special Spectator Protection – 1” ALumiium expanded Mesh on Railing Posts extensions on back and sides of stand guardrailing – 6’ height above seat.	One unit requires protection
Total Net Seats	152

B. Unit Type B: Softball

Description	Base Bid
Number of Rows	3
Length	29’-0”
Type of Understructure:	
Aluminum Tube Framing – Manufacturer’s Design	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards	X
Riser Height	6”
First Row Seat Hieght	12”
Riser Finish:	
Clear Anodized	X
Tread Depth each row	24” to 26”
Tread Depth Last Row	30”
Tread Type:	
Aluminum 2 x 10 mill finish	X
Seat Type:	
Aluminum 2” x 12” with Radius Comfort Edge	X
Seat Height above Tread	17”
Bench Seat Finish:	
Clear Anodized	X
Type of Guardrail: If Required.	
Picket	X
Type of Handrail: If Required.	
Clear Anodized Aluminum	X
Total Net Seats	54

C. Unit Type C: Base Bid Softball and Alternate #1 Baseball – Dugouts.

Description	Base Bid
Number of Rows	2
Length	12'-0"
Type of Understructure:	
Aluminum Tube Framing – Manufacturer's Design	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards	X
Riser Height	Just Rows
First Row Seat Hieght	12"
Riser Finish:	
Clear Anodized	X
Tread Depth OnlyRow	30"
Tread Type:	
Aluminum 2 x 10 mill finish	X
Seat Type:	
Aluminum 2" x 12" with Radius Comfort Edge	X
Seat Height above Tread	17"
Bench Seat Finish:	
Clear Anodized	X
Total Net Seats	16

D. Unit Type D: (Alternate #1 Baseball)

Description	Base Bid
Number of Rows	4
Length	23'-0"
Type of Understructure:	
Aluminum Tube Framing – Manufacturer's Design	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards	X
Riser Height	6"
First Row Seat Hieght	12"
Riser Finish:	
Clear Anodized	X
Tread Depth each row	24" to 26"
Tread Depth Last Row	30"
Tread Type:	
Aluminum 2 x 10 mill finish	X
Seat Type:	
Aluminum 2" x 12" with Radius Comfort Edge	X
Seat Height above Tread	17"
Bench Seat Finish:	
Clear Anodized	X

Description	Base Bid
Type of Guardrail:	
Picket	X
Type of Handrail:	
Clear Anodized Aluminum	X
Total Net Seats	56

E. Unit Type E: (Alternate #1 Baseball)

Description	Base Bid
Number of Rows	10
Length	24'-0"
Type of Understructure:	
Aluminum Tube Framing – Manufacturer's Design	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards	X
Riser Height	6"
First Row Seat Hieght	12"
Riser Finish:	
Clear Anodized	X
Tread Depth each row	24" to 26"
Tread Depth Last Row	30"
Tread Type:	
Aluminum 2 x 10 mill finish	X
Seat Type:	
Aluminum 2" x 12" with Radius Comfort Edge	X
Seat Height above Tread	17"
Bench Seat Finish:	
Clear Anodized	X
Type of Guardrail:	
Picket	X
Type of Handrail:	
Clear Anodized Aluminum	X
Total Net Seats	160

F. Quantities:

1. Bleacher Type A: 2 (Softball)
2. Bleacher Type B: 1 (Softball)
3. Bleacher Type C: 4 Softball / 4 Baseball (Alternate)
4. Bleacher Type D: 3 Baseball (Alternate)
5. Bleacher Type E: 2 Baseball (Alternate)

G. Aluminum:

1. Extruded Tread Planks, Risers, Seats, Brackets, and Rails: ASTM-B221 extruded alloy 6063-T-6.

2. Hold-Down Clips: Aluminum alloy 6063-T6.

3. End Caps: Aluminum alloy 6063-T6 channel or cast aluminum alloy 319.

4. Aluminum Finishes:

a. Finish for Tread Planks, Risers, and Cast End Caps: Mill Finish.

b. Finish for Seats, Brackets, Rails, Back Rest, and Extruded End Caps: Clear anodized 204R1 AA, M10C22A31, Class II.

H. Guardrail/Handrail Systems:

1. Guardrail/handrail shall be of anodized aluminum extruded pipe 6061-T6 alloy, 1-5/8 inches OD.

2. Guardrail panel sections are a combination of 1-5/8 inches OD top and bottom rails welded together with 1/2 inch OD tubular vertical picket style steel sections supplied where needed for front, sides, rear, portals, ramps, and stairs with a maximum opening of less than 4 inches, anodized after fabrication.

3. All handrail connections shall be welded or constructed with Hollaender high tensile aluminum/magnesium alloy slip-on/bolt-on pipe fittings conforming to Federal Specification QQ-A-371 For QQ-A-601F; alloy B535.2 as regular manufactured by The Hollaender Manufacturing Company, 10285 Wayne Avenue, Box 156399, Cincinnati, Ohio 45215-6399.

I. Hardware:

1. Bolts, Nuts: Stainless Steel.

2. Tie-down Clip Assembly: Aluminum alloy 6061-T6.

3 Execution

3.1 Installation

A. Installation: Shall be handled directly by the manufacturer or by a factory certified installation subcontractor.

B. Erect per plans, shop drawings, and specifications.

C. After installation, Grandstand and Press Box shall be checked for proper alignment and function by certified professional engineer. Same engineer must provide Owner with an occupancy safety certificate stating Grandstand and Press Box are ready to be occupied by the public.

3.2 Cleaning

A. Clean all surfaces according to manufacturer's recommendations.

B. Remove all packaging and construction debris.

3.3 Maintenance

A. Provide owner with the suggested inspection and follow-on service check list.

Which will insure maximum service life of the seating unit.

END OF SECTION

SECTION 32 31 13
CHAIN LINK FENCES AND GATES

1 General

1.1 Section Includes

A. Fence framework, fabric, and accessories.

B. Concrete anchorage for posts and center drop for gates.

C. Gates and related hardware.

D. BaseballSoftball backstop.

1.2 Related Sections

A. Section 32 13 80 - Exterior Concrete: Concrete anchorage for posts.

1.3 References

A. ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

B. ASTM A428 - Weight of Coating on Aluminum-Coated Iron or Steel Articles.

C. ASTM A491 - Aluminum Coated Steel Chain-Link Fence Fabric.

D. ASTM A569 - Steel, Carbon, (0.15 Maximum, Percent) Hot-Rolled Sheet and Strip Commercial Quality.

E. ASTM A585 - Aluminum Coated Steel Barbed Wire.

F. ASTM C94 - Ready-Mixed Concrete.

G. ASTM F567 - Standard Installation of Chain-Link Fence.

H. ASTM F668 - Poly(Vinyl Chloride) (PVC) - Coated Steel Chain-Link Fence Fabric.

I. ASTM F669 - Strength Requirements of Metal Posts and Rails for Industrial Chain Link Fence.

J. ASTM F1083 - Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures.

K. ASTM F1234 - Protective Coatings on Steel Framework for Fences.

1.4 Quality Assurance

A. Manufacturer and Installer: Company specializing in commercial quality chain link fencing with five (5) years experience.

B. Installation: ASTM F567.

1.5 Submittals

A. Submit shop drawings and product data under provisions of Division 1.

B. Include plan layout, elevation, spacing of components, accessories, fittings, hardware, anchorages, and schedule of components.

C. Submit manufacturer's installation instructions under provisions of Division 1.

D. Submit samples under provisions of Division 1.

E. Submit two __ samples __ by __ inches (__ by __ millimeters) in size, illustrating each fence fabric finish.

2 Products

2.1 Materials

A. Type I Framework: ASTM F1083; Schedule 40 galvanized vinyl coated, fusion bonded steel pipe, standard __ weight, one piece without joints welded joints permitted.

B. Fabric: ASTM A491; aluminum coated steel zinc-coated steel aluminum alloyASTM F668; vinyl coated fusion-bonded steel.

C. Barbed Wire: ASTM A585.

D. Decorative fence slatting.

2.2 Finishes

A. Vinyl Coating: Black color, on galvanized coating; 7 mil thickness for fabric; 10 mil thickness for framing.

B. Vinyl Components: Black color.

C. Vinyl Slatting Components: Dark Green color.

D. Accessories: Same finish as framing fabric.

2.3 Concrete Mix

A. Concrete: As specified in Section 32 13 80.

2.4 Chain Link Fence And Gate Components

A. Framework: Weights shown are based on Type I Pipe. Weights shown in parentheses are based on Type II Pipe.

1. Line Posts:

Fabric Height	Line Post	Corner & Terminal Post	Top Rail	Mid Rail

Fabric Height	Line Post	Corner & Terminal Post	Top Rail	Mid Rail
4' - 6'	1.90" OD Pipe @ 2.72# (2.28#)	2.375" OD Pipe @ 3.65# (3.12#)	1.66" OD Pipe @ 2.27# (1.84#)	---
8'	2.375" OD Pipe @ 3.65# (3.12#)	2.875" OD Pipe @ 5.79# (4.64#)	1.66" OD Pipe @ 2.27# (1.84#)	1.66" OD Pipe @2.27# (1.84#)
10' - 12'	2.875" OD Pipe @ 5.79# (4.64#)	4.0" OD Pipe @ 9.11# (6.56#)	1.66" OD Pipe @ 2.27# (1.84#)	1.66 OD Pipe @ 2.27# (1.84#)

2. Gate Frames:

Gate Height	Leaf Width	Frame
6' or less	4' or less	1.66” OD Pipe @ 2.27# (1.84#)
6' to 12'	over 4'	1.90" OD Pipe @ 2.72# (2.28#)

3. Gate Posts: Posts for supporting single gate leaf, or one leaf of a double gate.

Leaf Width	Post
6' or less	2.875" OD Pipe @ 5.79# (4.64#)
over 6' to 12'	4.0" OD Pipe @ 9.11# (6.56#)
over 12' to 18'	6.625" OD Pipe @ 18.97#
over 18'	8.625" OD Pipe @ 28.55#

4. Cantilever Sliding Gates: Framework size per manufacturer's recommendation.

B. Fabric: 1.75inch diamond mesh steel wire, interwoven, 9 gage thick, top knuckle selvage, bottom knuckle selvage.

1. Baseball/Softball Backstop Fabric: 2 inch diamond mesh, 6 gage, knuckled selvage top and bottom, as shown on Drawings.

2. Fabric gage for vinyl coated fabric is before vinyl coating.

C. Caps: Aluminum alloy; sized to post dimension, set screw retained.

D. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

E. Tension Wire: 7 gage thick steel, single strand.

F. Truss Rods: 3/8 inch diameter, galvanized steel.

G. Extension Arms: Cast Steel,Molded plastic, to accommodate three six strands of barbed wire, single double arm, vertical. sloped to 45 degrees.

H. Gate Hardware: Center gate stop and drop rod;Mechanical keepers; three 180 degree gate hinges per leaf and hardware for padlock.

2.5 Sliding Gates

A. Galvanized steel, heavy duty track, ball-bearing hanger sheaves, framing and supports, guides, stays, bracing, stops, provision for padlock and catches as required for a complete, operable assembly.

2.6 Portable Fencing

A. Basis of Design: As manufactured by SportaFence Marketing Enterprises, LLC or approved equal, Model – SportaFence Wheeled Fence.

B. Heavy-duty portable chainlink fence panels, Size – 6' high x 10' long.

C. Fencing: Galvanized 8-gauge chainlink Fence, with Black Vinyl Coating to match other fence as additional option.

D. Connectors: Devices for connecting panels together – manufactures standard.

E. Collapsable Legs for storage, manufacturers standard.

3 Execution

3.1 Fencing

A. Install framework, fabric, accessories, and gates in accordance with ASTM F567.

B. Provide fence __ feet nominal heightof height indicated.

C. Space line posts at intervals not exceeding 10 __ feet.

D. Set terminal gate and line posts plumb, in concrete footings with top of footing 2 inches above 6 inches (150 millimeters) below finish grade except for tennis courts and backstop, which shall be flush with grade.

1. Slope top of concrete for water runoff.

2. Footing Depth Below Finish Grade: 48 inches.

3. Footing Diameter: Post diameter plus 8 inches.

E. Core drill holes in pavement for tennis court fence posts.

F. Provide top rail through line post tops and splice with 7 inch long rail sleeves.

G. Brace each gate and corner post back to adjacent line post with horizontal center brace rail, and diagonal truss rods.

1. Install brace rail, one bay from end and gate posts.

H. Install center and bottom brace rail on corner and gate leaves.

I. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.

J. Position bottom of fabric 2 inches above finished grade, except for tennis courts and backstops which shall be flush with grade.

K. Fasten fabric to top rail, line posts, braces, and bottom tension wire with wire ties maximum 15 inches on center.

L. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.

M. Install bottom tension wire stretched taut between terminal posts.

N. Install barbed wire support arms sloped inward outward and attach barbed wire; tension and secure.

O. Clamp fence posts to ground wires where provided by Electrical Contractor.

P. Secure barbed tape to barbed wire with wire ties at 12 __ inches on center.

Q. Secure fence top protection with fasteners per manufacturer's instructions.

R. Install fence slatting in all fencing.

3.2 Gates

A. Install gates with fabric and barbed wire overhang to match fence.

1. Install three hinges per leaf, latch, catches, drop bolt foot bolts and sockets torsion spring retainer retainer and locking claim.

B. Provide concrete center drop to foundation depth and drop rod retainers at center of double gate openings.

C. Install sliding gate in accordance with manufacturer's recommendations.

1. Adjust for smooth operation.

3.3 Portable Fencing

A. Portable Fencing placement:

1. Refer to Plan and location on Softball Field – provide sufficient number of portable units for length indicated on Drawings – lengths of units can vary to allow for exact closure of arched fence condiiton.

END OF SECTION