ADDENDUM NO. 1

August 10, 2022

CROWN POINT NEW TAFT MIDDLE SCHOOL - BID PACKAGE #3 - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK
Winfield, IN 46307

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 19, 2022 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Addendum No. 1 from Gibraltar Design dated August 9, 2022 and consisting of 3 pages, Re-issued Specification Sections 08 33 00 - Rolling Doors and Grills, 08 71 00 - Door Hardware, 13 34 16 - Grandstands, 32 31 13 - Chain Link Fences and Gates, and 7 Drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **DIVISION 11 - EQUIPMENT**

   a. **Delete:**

      Specification Section 11 68 33 - Athletic Field Equipment

2. **DIVISION 32 - EXTERIOR IMPROVEMENTS**

   a. **Delete:**

      Specification Section 32 12 16 - Asphaltic Concrete Paving

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

1. BID CATEGORY NO. 21 - SITEWORK/GENERAL TRADES

a. **Delete:**

Specification Section 11 68 33 - Athletic Field Equipment

b. **Delete:**

Specification Section 32 12 16 - Asphaltic Concrete Paving

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for **New Taft Middle School – Athletic Site Improvements and Related Work** for Crown Point Community School Corporation, Crown Point, 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 contract 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. All Contractors shall note that the Addendum Number represented is a continuation of the Addendum sequence from Bid Package #1, and this addendum is the first addendum related to this Bid Package.

SPECIFICATIONS

1. **Specification Section 08 33 00 Rolling Doors and Grills**
   A. Refer to the re-issued Specifications Section 08 33 00 in its entirety, included in this addendum.
2. **Specification Section 08 71 00 Door Hardware**
   A. Refer to the door hardware schedule, included in this addendum.
3. **Specification Section 11 68 33 Athletic Field Equipment**
   A. Remove specification section in its entirety.
4. **Specification Section 13 34 16 Grandstands and Press Box**
   A. Refer to the re-issued Specifications Section 13 34 16 in its entirety, included in this addendum.
   B. Note clarification of acceptable manufacturers, specific construction type, and design of stands and press box.
5. **Specification Section 32 12 16 Asphaltic Concrete Paving**
   A. Remove specification section in its entirety.
6. **Specification Section 32 31 13 Chain Link Fences and Gates**
   A. Refer to the re-issued Specifications Section 32 31 13 in its entirety, included in this addendum.

DRAWINGS

7. Sheets C-2.0 and C-2.1

A. Refer to attached revised full-size drawing, included in this Addendum, for the following revisions:

1. Clarify All Weather Latex System scope.
2. Add 3 additional gates in Tennis Fence.
3. Callout enlarged plan for additional fencing at Mechanical Equipment and Service Yard.
4. Remove notes 33 and 34 from plan and General Notes.

8. Sheet C-2.2

A. Refer to attached revised full-size drawing, included in this Addendum, for clarifications to mounting height details.

1. Grandstand Lower Level Plan: Clarify metal fence.
2. Grandstand Upper Level Plan: Add dimension of grandstands off of fence around track.
3. Add Enlarged Mech Equipment and Service Yard Site Plan.

9. Sheet C-3.0

A. Refer to attached revised full-size drawing, included in this Addendum, for the following revisions:

1. Connect downspouts from community building and trench drain from tennis to nearest storm sewer. Coordinate with current site contractor.

10. Sheet C-4.0

A. Refer to attached revised full-size drawing, included in this Addendum, for the following revisions:

1. Modify Baseball Backstop detail.
2. Remove details 12, 15, and 16.

11. Sheet E-002

A. Refer to attached revised full-size drawing, included in this Addendum, for the following revisions:

1. Revise One-Line Schematic Riser Diagram.

12. Sheet ES-101

A. Refer to attached revised full-size drawing, included in this Addendum, for the following revisions:

1. Revise electrical site work requirements, general notes, and sheet notes.
2. Remove "Future work" note from scoreboard and game clocks.

Pages 1 through 3, inclusive, 4 Specification Sections, and seven (7) full-size drawings, constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN

Joseph P. Briggs

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SECTION 08 33 00
ROLLING DOORS AND GRILLES

1 General

1.1 Section Includes

A. Rolling counter doors; manually operated.

B. Rolling service doors; electrically operated.

1.2 Related Sections

A. Section 05 50 00 - Miscellaneous Metals: Support framing.

B. Section 08 71 00 - Door Hardware: Cylinder core and keys.

C. Section 09 91 00 - Painting: Field paint finish.

D. Division 26 - Equipment Wiring Systems: Junction boxes, conduit, disconnect switches, and wiring to control stations and disconnect switches.

1.3 References

A. UL 325 - Safety Door, Drapery, Gate, Louver, and Window Operators and Systems.

B. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

C. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.

1.4 System Descrition

A. Design Uniform Wind Load: In accordance with requirements of Indiana Building Code applicable codes.

B. Face mounted and manual operation at Ticket A-101 and Concessions A-107.

C. Face mounted and electrically operated at Football Storage A-102 and Track and Field Storage A-103.

1.5 Submittals

A. Submit shop drawings under provisions of Division 1.

1. Provide pertinent dimensioning, general construction, component connections and details, anchorage methods, hardware location, wiring diagrams, and installation details.

2 Products

2.1 Rolling Doors And Grilles - Acceptable Manufacturers

A. Overhead Door Corporation, Dallas, Texas.

B. Wayne-Dalton Corporation, Mt. Hope, Ohio.

C. The Cookson Company, Phoenix, Arizona.

D. Cornell Iron Works, Inc., Mountaintop, Pennsylvania.

2.2 Materials

A. Curtain:

1. Exterior Rolling Doors and Counter Doors: Slat profile and width as recommended by the manufacturer; endlocks and windlocks on alternate slats or as required; hood baffle; aluminum bottom bar.

    a. Insulated Service Doors: Minimum 22 gage steel slats with minimum 24 gage steel backing; G90 coating in accordance with ASTM A653; fill between steel face and backing with nominal 2 pound density polyurethane insulation.

B. Curtain Guides:

1. Non-Labeled Counter Doors: Extruded aluminum angles of required sizes and configurations; with continuous pile strips.

2. Service Doors: Formed steel angles of required sizes and configurations.

C. Roller Shaft (Counterbalance): Steel pipe and helical steel spring system capable of producing sufficient torque to assure easy operation of curtain from any position; adjustable spring tension; deflection not to exceed 0.03 inch per foot of span.

D. Housing: 24 gage galvanized steel; internally reinforced to maintain rigidity and form.

1. Provide hood baffle at insulated doors.

E. Brackets: Steel plate to support curtain and counterbalance assembly on sealed ball bearings, form end closure, and support housing.

F. Locking: Furnish cylinder locking devices at all Service and Counter doors.

G. Provide interlock at electrically operated doors to prevent door operation when door is locked.

1. Provide all associated wiring required.

H. Weatherstripping: Water and rot proof, resilient type; located along jamb edges, bottom of curtain, and within housing.

2.3 Operation

A. Manual Push Up Operation at Concessions Stand and Ticket Booth.

1. Lift handles on bottom bar.

B. Electric Operation at Storage Rooms: UL approved in accordance with UL 325; side mounted; 115 200 volt, single three phase, 60 Hz supply to 1/2 1/3 3/4 horsepower electric motor; adjustable friction clutch, double shoe brake system actuated by independent full line voltage solenoid controlled by motor starter, fully enclosed positive gear driven limit switch; fully enclosed magnetic cross line reversing starter; hand chain safety interlock.

1. Control Station: Flush mounted, three position, constant pressure, key operated, control station for each the operator; 24 volt circuit.

2. See Electrical Drawings for locations of controls.

3. Electric Door Edge: Located at bottom of service doors, full width; electro-mechanical type; wired to reverse door upon striking object; vinyl or rubber covered to provide weather seal.

a. Provide all associated wiring required.

C. Safety Devices: Provide each the fire rated door with 24 volt DC, electromagnetic devices as standard with the manufacturer to satisfy the following requirements.

1. Automatic closing actuated by external electrical impulse of low power and short duration.

2. Totally independent of power failures.

3. Easily resettable by building personnel.

4. Allow door to function as a normal rolling door.

5. Locate on each side of door at top of door opening.

a. If ceiling is more than 3 feet above top of opening, locate on each side of door at ceiling.

D. Emergency Release Device: Wall mount emergency release device to open grille or door at and provide instant egress, without electrical power.

2.4 Finish

A. Ferrous Metal: Coat surfaces, except working machinery and galvanized steel, with a factory coat of rust inhibiting primer.

B. Service Doors: Baked on or Powder Coated Finish, as selected from Manufacturers standard color selections.

C. Aluminum: Clear anodized finish.

3 Execution

3.1 Installation

A. Install rolling doors and rolling grilles, with electric operators and controls, in accordance with manufacturer's instructions.

   1. Coordinate installation with electric service.

B. Anchor steel tube jambs at rolling grilles to floor slab and to steel structure above ceiling.

C. Fit, align, and adjust door assembly assemblies level and plumb; provide smooth operation.

END OF SECTION

Specification Section 08 71 00 – Door Hardware: 3.8b. Hardware Sets.

HARDWARE GROUP NO. 01

FOR USE ON DOOR #(S):
A-104A A-106A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	CLASSROOM DEADBOLT	48H-7-R	626	BES
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	SET	MEETING STILE	328AA-S	AA	ZER
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	THRESHOLD	655A-223	A	ZER

HARDWARE GROUP NO. 02

FOR USE ON DOOR #(S):
A-105A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	DORMITORY LOCK	45H 7 T 14S VIT	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

HARDWARE GROUP NO. 03

FOR USE ON DOOR #(S):
A-108A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCKSET	9K7 R 14D	626	BES
1	EA	OH STOP & HOLDER	90H	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 04

FOR USE ON DOOR #(S):
A-102A A-103A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	STOREROOM LOCKSET	9K7 D 14D	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

HARDWARE GROUP NO. 05

FOR USE ON DOOR #(S):
A-101A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	STOREROOM LOCKSET	9K7 D 14D	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	VIEWER	U698	626	IVE

HARDWARE GROUP NO. 06

FOR USE ON DOOR #(S):
A-107A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	STOREROOM LOCKSET	9K7 D 14D	626	BES
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

Specification Section 08 71 00 – Door Hardware: 3.8b. Hardware Sets.

HARDWARE GROUP NO. 07

FOR USE ON DOOR #(S):
A-109A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	STOREROOM LOCKSET	9K7 D 14D	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHER STRIPPING	BY DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

HARDWARE GROUP NO. 08

FOR USE ON DOOR #(S):
A-101B A-101C A-102B A-103B A-107B

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CYLINDER	RIM/MORTISE CYLINDER AS REQ'D	626	BES
		NOTE	BALANCE OF HARDWARE BY DOOR MFG		

END OF SECTION

SECTION 13 34 16
GRANDSTANDS

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.

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 Grandstand system 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, 2012 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. 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 Grandstand shall 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 Grandstands - 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. SturdiSteel, Waco, Texas.
4. All Star Bleachers, Inc., Lakeland, Florida.

2.2 Technical Design (General Guidelines)

Description	Base Bid
Number of Rows	10
Length	94'-0" +/-
Front Walk Elevation	3'-6"
Type of Understructure:	
Elevated Galvanized Steel Angle Framing	X
Foot Brackets, Crossbracing, Brackets, Runners and Rail Posts – Aluminum Clear Anodized or Mill Finish – per manufacturers standards.	X
Riser Height	13"
Riser Finish:	
Clear Anodized	X
Tread Depth	26"
Read Depth last Row	30"
Deck Type:	
Aluminum Interlocking	X

Description	Base Bid
Seat Type:	
Aluminum 2" x 12" with Radius Comfort Edge	X
Bench Seat Finish:	
Clear Anodized	X
Seat Height above Tread	17"
Aluminum Back Plank	X
Aluminum Back Plank Finish:	
Clear Anodized	X
Type of Guardrail:	
Picket, Clear Anodized Aluminum	X
Type of Handrail:	
Clear Anodized Aluminum	X
Cross Aisle:	
Front	X
Wheel Chair Accessible – YES, with all compliant railing and clearances.	X
Total Net Seats	**1000**

2.3 Materials and Finishes

A. Framework:

1. Galvanized Steel: Structural fabrication with ASTM-A529 steel. Shop connections are seal welded. After fabrication, all steel is hot-dipped galvanized to ASTM-A123 specification.

B. Extruded Aluminum:

1. Seat Planks, Riser Planks, Step Risers: Minimum extruded aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II, and a wall thickness of .094".All bolts 1/2 inch diameter and smaller shall be ASTM A-307. All bolts 5/8" and above shall be ASTM A-325.

2. Tread Planks: Minimum extruded aluminum alloy 6063-T6, mill finish and wall thickness of .094".

C. Accessories:

1. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II.

2. Hardware:

   a. Bolts, Nuts: Galvanized or plated.

   b. Hold-Down Clip Assembly: Aluminum alloy 6061-T6.

3. Guardrailing: Anodized aluminum rail 1-5/8" O.D. with galvanized chain link.

4. Crossbraces: Extruded aluminum angle alloy 6061-T6, mill finish.

5. Aisle Nose: Aluminum alloy, 6063-T6, black powder-coat finish.

D. Provide cross bracing the length of the Grandstand as required for design compliance.

E. Entry stairs shall be firmly anchored to poured concrete bases as shown on drawings, if not shown, provide minimum as width of stair, 2'-0" under stair edge and 5'-0" out from first stair riser.

1. Stair Rise: 7 inches maximum with vertical aluminum closures.

2. Stair Tread Depth: 11 inches minimum.

3. Guardrails on stair shall be 42 inches above leading edge of step.

4. Stairs shall have offset handrail extensions on each side of stair. The handgrip portion of handrails shall not be less than 1-1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent griping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the leading edge of the step. Handrails shall be continuous the full length of the ramp and shall extend in the direction of the ramp not less than 1'-11" beyond the end of the stair tread. Ends shall be returned or shall terminate at posts or safety terminals.

F. Aisles:

1. Aisles with seating on both sides to have 34 inch high pre-fabricated aluminum handrail with intermediate rail at approximately 22 inches above tread.

2. Pre-fabricated anodized aluminum handrails with continuous rounded ends shall be discontinuous to allow access to seating through a space 22 inches, minimum, to 36 inches, maximum. External connectors, elbows, and swivels shall not be used to make any directional changes on mid-aisle handrails.

3. Width of aisle shall be 54 inches minimum or wider if determined during code review.

4. Handrails shall connect to decking/riser surface without penetration of the deck system.

G. Aluminum:

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

2. 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.

    c. All decking intended for use as a walking or standing surface, excluding seat planks, shall be slip resistant in accordance with requirements of the Americans with Disabilities Act (ADA).

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. Ramps:

1. Maximum Slope: 1 in 12.

2. Guardrails shall be 42 inches above ramp design same as Grandstand.

3. Handrail: Ramps shall have handrail extensions. The handgrip portion of handrails shall not be less than 1-1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent griping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the ramp surface. Handrails shall be continuous the full length of the ramp and shall extend in the direction of the ramp not less than 12 inches beyond the end of the ramp. Ends shall be returned or shall terminate the newel posts or safety terminals.

J. Handicap Provision:

1. Quantity of Wheelchair Spaces: As shown on Drawings and/or as required by code.

2. Riser area adjacent to wheelchair spaces shall have intermediate construction so 4 inch sphere cannot pass through opening.

3. Guardrail: Area directly behind handicap areas shall have two line anodized aluminum rail attached to the surface of the decking/riser members. These rails shall be pre-fabricated to match the appearance of the mid-aisle handrails.

K. Hardware:

1. Bolts, Nuts: Hot-dipped galvanized.

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

3. Structural Hardware: Equal to or greater than hot-dipped galvanized ASTM-A307. No connections utilizing high strength bolts are classed as slip critical.

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. Securely anchor the stands to the concrete slabs.

D. After installation, Grandstand shall be checked for proper alignment and function by certified professional engineer. Same engineer must provide Owner with an occupancy safety certificate stating Grandstand 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.

3.4 On Grade Concrete (Refer to Concrete Specification)

A. Provide on grade slabs as required to connect to sidewalks as indicated on the Civil Drawings.

B. Provide all required excavation and backfill required for the installation of concrete slabs and foundations as indicated on the structural drawings.

3.5 Concrete Foundations (Refer to Concrete Specification)

A. Provide reinforced, poured-in-place concrete spread footings as shown on the Drawings and as required by the structural design and layout of the Grandstands.

B. Perform all required excavation and backfill required for the installation of concrete foundations.

C. Owner verifies that the soil bearing capacity is minmum 2000 P.S.F.

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. Tennis court fencing.

E. BaseballSoftball backstop.

F. Track finish line marker posts.

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.

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.

2.2 Finishes

A. Type A Galvanized: ASTM F1234; 1.8 __ ounces per square foot coating.

B. Vinyl Coating: Medium green Dark green Black __ color, on galvanized coating; 7 mil thickness for fabric; 10 mil thickness for framing.

C. Vinyl Components: Black 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: Two (2) inch diamond mesh steel wire, interwoven, eleven (11) gage thick, top twist knuckle selvage, bottom twist knuckle selvage.

1. Tennis Court Fence Fabric: 1-3/4 inch diamond mesh, 11 gage, knuckled top and bottom.

2. Baseball Backstop Fabric: 2 inch diamond mesh, 9 gage, knuckled selvage top and bottom, as shown on Drawings.

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

C. Caps: Cast steel or malleable iron, galvanized;Aluminum alloy;Molded rigid vinyl; 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 Finish Line Marker Post

A. 3 inch OD galvanized pipe with top cap.

3 Execution

3.1 Fencing

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

B. Provide fence height as delineated or indicated on drawings.

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 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 10 inches, unless indicated differently on drawings.

E. Core drill holes in concrete 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. Clamp fence posts to ground wires where provided by Electrical Contractor.

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

3.2 Gates

A. Install gates with fabric 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.

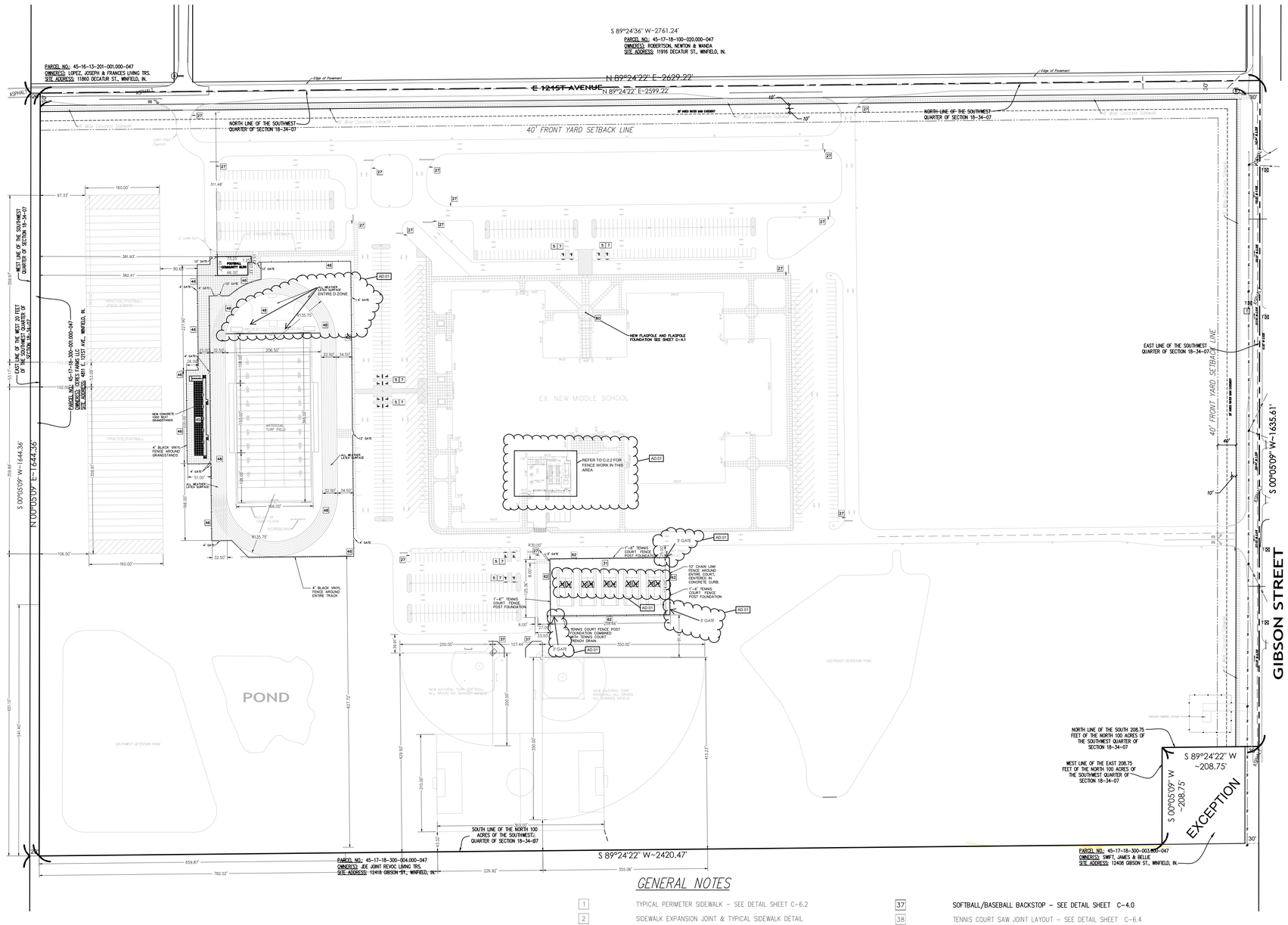
C. Install sliding gate in accordance with manufacturer's recommendations.

1. Adjust for smooth operation.

3.3 Finish Line Marker Posts

A. Set finish line marker posts in 12 inch diameter by 42 inch deep concrete footing.

END OF SECTION



NOTES:

The sequence for the construction of the soccer fields and baseball/softball fields:

1) The existing topsoil is to be stripped off of the site and stockpiled nearby. Refer to the recommendations made on the Geotechnical Report to determine the extent of topsoil necessary to be removed.

2) Proposed rough grading of the site shall be performed to a depth of 6 inches less than the final grades as shown on the grading plan for the playing fields. Prior to final grading, allow adequate time for the soil to settle to avoid uneven turf later.

3) The final 6 inches consisting of topsoil free from impurities and debris shall be placed to the elevations as shown on the plans.

4) A final shallow raking of disturbed area shall be done immediately before seeding for the preparation of a good seedbed.

5) Apply a starter fertilizer (high in PH) at the rate of 1.5 lbs/1000sf.

6) The entire area of the soccer fields and baseball/softball fields shall be hydro-seeded with a mixture of 80% Kentucky Bluegrass and 20% mixture of Perennial Ryegrass or a mixture as specified by the Owner/Architect.

The Contractor shall follow the procedure outlined below in the event that field drain tiles are encountered during construction:

7) Any subsurface drain tiles found not previously located during construction of this site shall be evaluated at each location. If the drain tiles are found to actively service off-site properties, then these drain tiles shall be tied into the proposed stormwater management system. Locations of these drain tiles shall be noted in record drawings at each property boundary. If any inactive drain tiles are found totally within the subject parcel, they shall be removed in their entirety and capped at the property boundary.

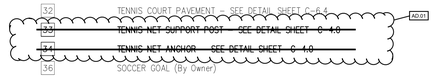
ADDITIONAL GRADING NOTES:

1. WITH REGARDS TO FINISHED GRADES ON THE WEST PRACTICE FIELDS, MINOR ADJUSTMENTS TO FINISHED GRADES WILL BE CONSIDERED, SUBJECT TO APPROVAL OF ARCHITECT AND CONSTRUCTION MANAGER.

2. TOPSOIL CAN BE REUSED AS FILL IN AREAS THAT ARE NOT STRUCTURAL IN ANY MANNER.

GENERAL NOTES

1	TYPICAL PERIMETER SIDEWALK – SEE DETAIL SHEET C-6.2	37	SOFTBALL/BASEBALL BACKSTOP – SEE DETAIL SHEET C-4.0
2	SIDEWALK EXPANSION JOINT & TYPICAL SIDEWALK DETAIL	38	TENNIS COURT SAW JOINT LAYOUT – SEE DETAIL SHEET C-6.4
	SEE SHEETS C-6.1 & C-6.2	39	SOFTBALL INFIELD WITH HOME PLATE, PITCHER'S PLATE, AND BASES
3	BLEACHER CONCRETE PAD DETAIL – SEE STRUCTURAL	40	BASEBALL INFIELD WITH HOME PLATE, PITCHER'S PLATE, AND BASES
4	HANDICAP RAMP – SEE DETAIL SHEET C-4.2	42	FOUL BALL POLE MARKER – SEE DETAIL SHEET C-4.1
5	ACCESIBLITY SIGNAGE – SEE DETAIL SHEET C-4.1	45	BLEACHERS – SEE ARCHITECTURAL DRAWINGS
7	INTERNATIONAL SYMBOL OF ACCESSIBILITY PROPORTIONS SHEET C-4.0	46	4' CHAIN LINK FENCE – SEE FENCE/GATE DETAIL ON SHEET C-4.0
8	COMBINED CONCRETE HIGH BACK CURB AND GUTTER – SEE DETAIL SHEET C-6.2	47	FOOTBALL GOAL POSTS (OFFSET SINGLE SUPPORT POST FOOTBALL GOAL ON PRACTICE FIELDS) – SEE DETAIL SHEET C-4.1
9	BARRIER CURB TYPE D – SEE DETAIL SHEET C-6.2	48	ALL-WEATHER LATEX SURFACE – SEE DETAIL SHEET C-4.0
10	ASPHALT PAVEMENT SECTION – SEE DETAIL SHEET C-6.2		
12	12" WIDE WHITE THERMOPLASTIC STOP BAR	50	CONCRETE SHOT PUT PAD – SEE DETAIL SHEET C-4.0
13	CONTINENTAL CROSSWALK DETAIL – SEE DETAIL SHEET C-6.3	51	LONG JUMP PIT – SEE DETAIL SHEET C-4.0
14	ACCESSIBILITY AND PARKING STRIPING DETAIL – SEE DETAIL SHEET 6.3, NOTE 2	52	ASPHALT PAVEMENT– SEE DETAIL SHEET C-6.4
15	TRAFFIC MARKINGS – SEE DETAIL SHEET C-6.4	53	ASPHALT PAVEMENT WITH ALL-WEATHER SURFACE – SEE DETAIL SHEET C-4.0
16	PAINTED 4" WIDE WHITE DASHED TRAFFIC LINE	54	8" OF SAND ON FILTER FABRIC
17	PAINTED 4" WIDE WHITE SOLID TRAFFIC LINE	55	2" WIDE WHITE PAINTED STRIPING ON ALL-WEATHER SURFACE
18	PAINTED 4" WIDE WHITE BUS PARKING MARKING	55	2" WIDE WHITE PAINTED STRIPING ON ALL-WEATHER SURFACE
19	PAINTED 4" WIDE WHITE PARKING MARKING	57	TRENCH DRAIN SEE SHEET C-4.0
20	ACCESSIBILITY AND PARKING STRIPING DETAIL – SEE DETAIL SHEET C6.3, NOTE 1	62	10' VINYL COATED FENCE – SEE FENCE/GATE DETAIL ON SHEET C-4.0
21	SWALE DETAIL – SEE DETAIL SHEET C-6.2	63	THREE BEAM GUARDRAIL DETAILS – SEE SHEET C-6.3
22	HEAVY DUTY ASPHALT PAVEMENT SECTION – SEE DETAIL SHEET C-6.2	72	BURIED FIELD CORNER MARKER – SEE DETAIL SHEET 6.4
23	CONCRETE PLANTERS SEE ARCHITECTURAL DRAWINGS	76	CONCRETE DRIVEWAY APRON DETAIL – SEE SHEET C-6.3
27	"STOP" SIGN – SIGN AND POST (FREE STANDING) – SEE DETAIL SHEET C-4.0	78	NEW 6'0" TALL VINYL COATED FENCE GATE – SEE FENCE/GATE DETAIL ON SHEET C-6.3
29	ROLLED CURB AND GUTTER DETAIL – SEE DETAIL SHEET C-6.1	79	COMBINED HIGH BACK CURB AND GUTTER – SEE SHEET C-6.2
31	5 TENNIS COURTS COMPLETE WITH TENNIS NET SUPPORTERS	80	FLAG POLE FOUNDATION – SEE SHEET C-4.0
32	TENNIS COURT PAVEMENT – SEE DETAIL SHEET C-6.4	81	2' WIDE CURB CUT – SEE SHEET C-4.2
33	~~TENNIS NET SUPPORT POST – SEE DETAIL SHEET C-4.0~~		
34	~~TENNIS NET ANCHOR – SEE DETAIL SHEET C-4.0~~		
36	SOCCER GOAL (By Owner)		



NORTH

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

GIBRALTAR

DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-107
DATE 07/22/22
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT RAT

DONALD C. TOSTERESKA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

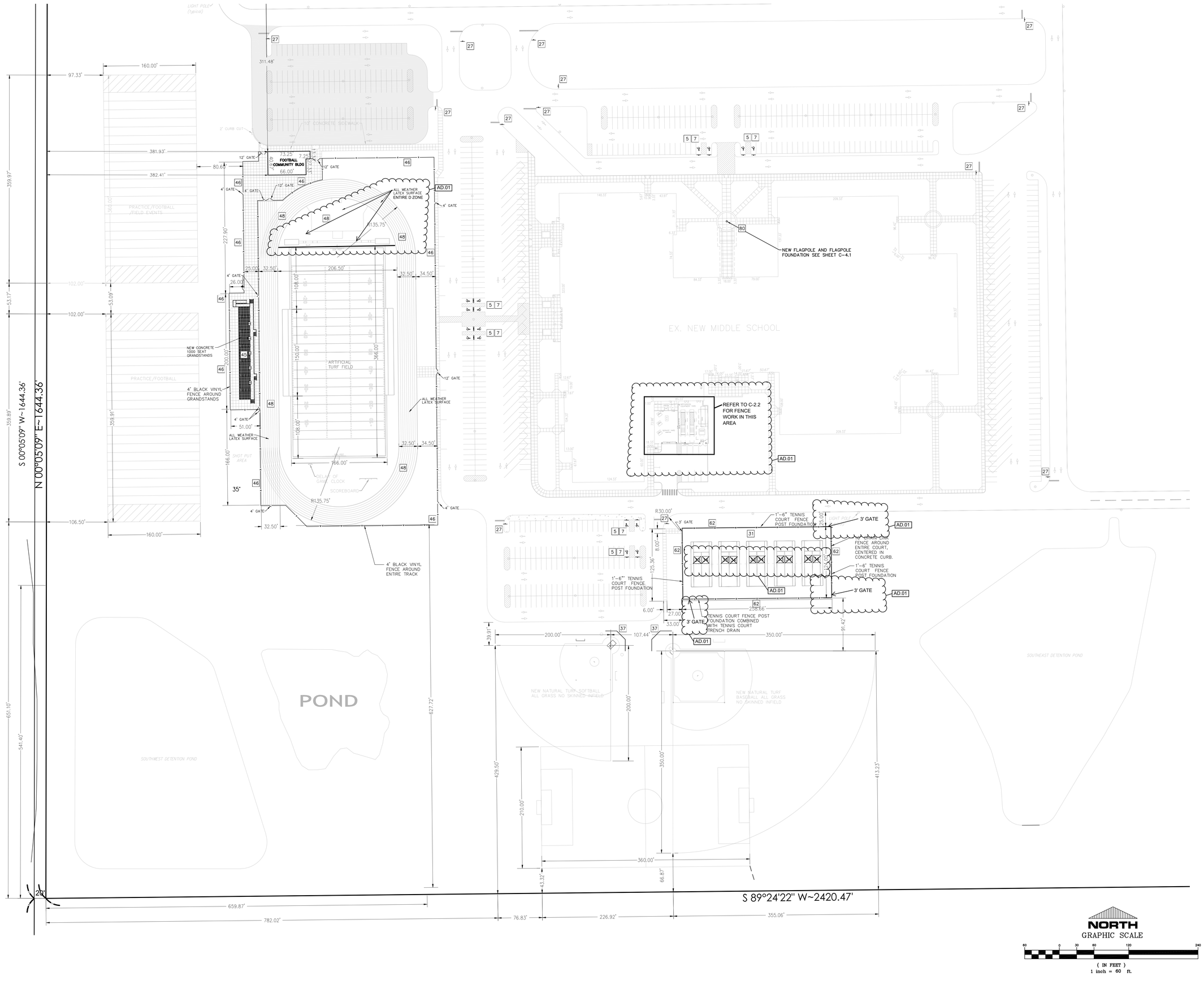
REVISIONS

MARK	DATE	ISSUED FOR
AD.01	08/09/22	ADDENDUM NO. 01

DRAWING
SITE PLAN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
C-2.0



NORTH

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

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ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
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COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT RAT

DONALD C. TORRENCE REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD.01	08/09/22	ADDENDUM NO. 01

DRAWING
SITE PLAN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
C-2.1

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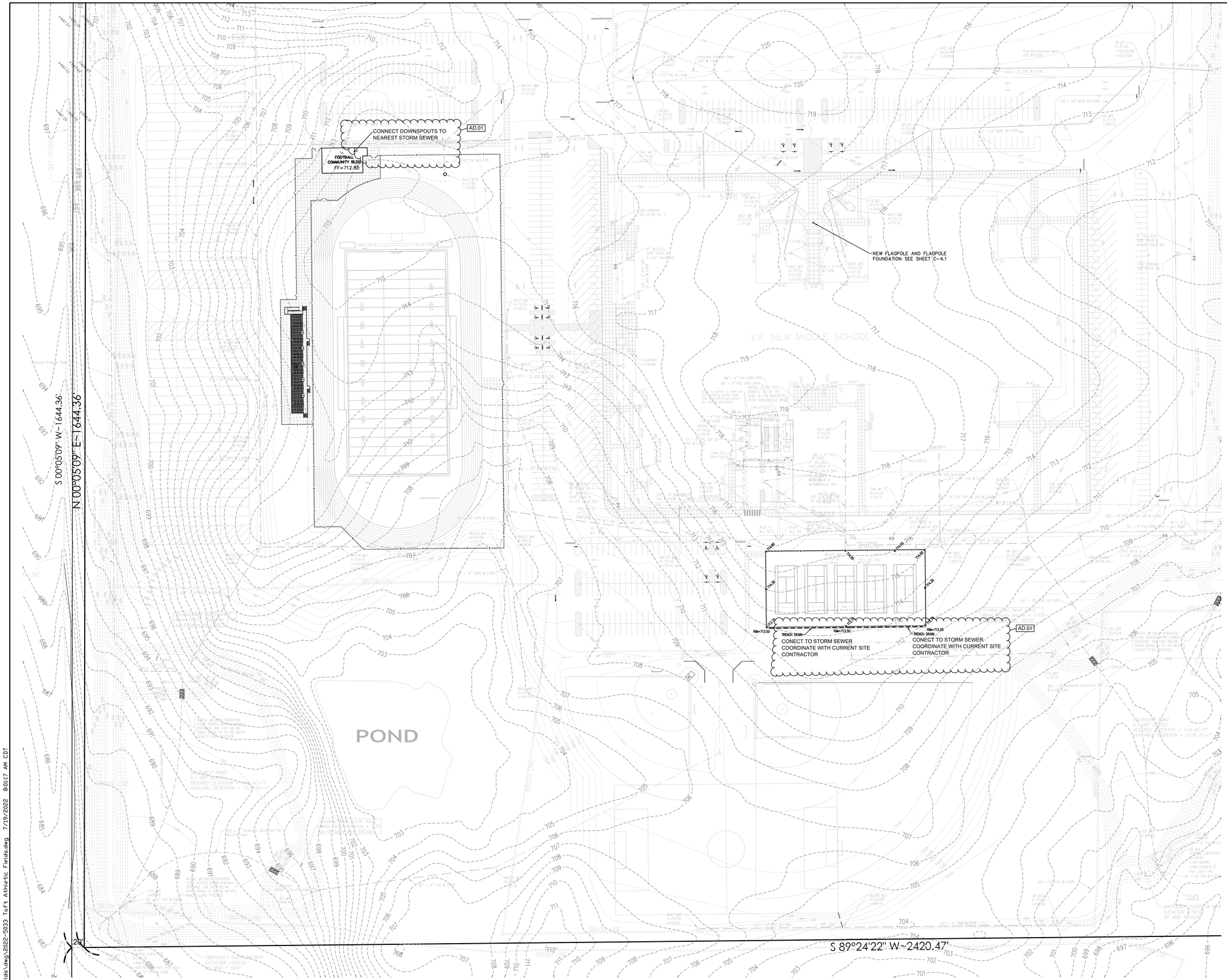

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PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
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DATE 07/22/22
COORDINATED BY DCT
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CHECKED BY DCT RAT

DONALD C. TORRENCE REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD.01	08/09/22	ADDENDUM NO. 01

DRAWING
WATER MAIN, SANITARY SEWERS, STORM SEWERS & GRADING PLAN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
C-3.1

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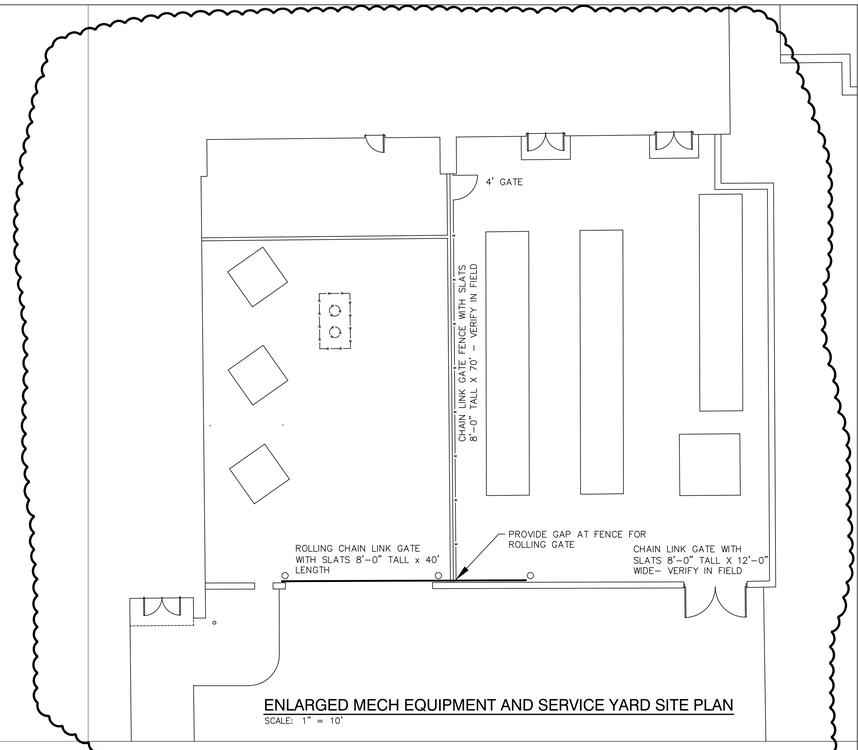
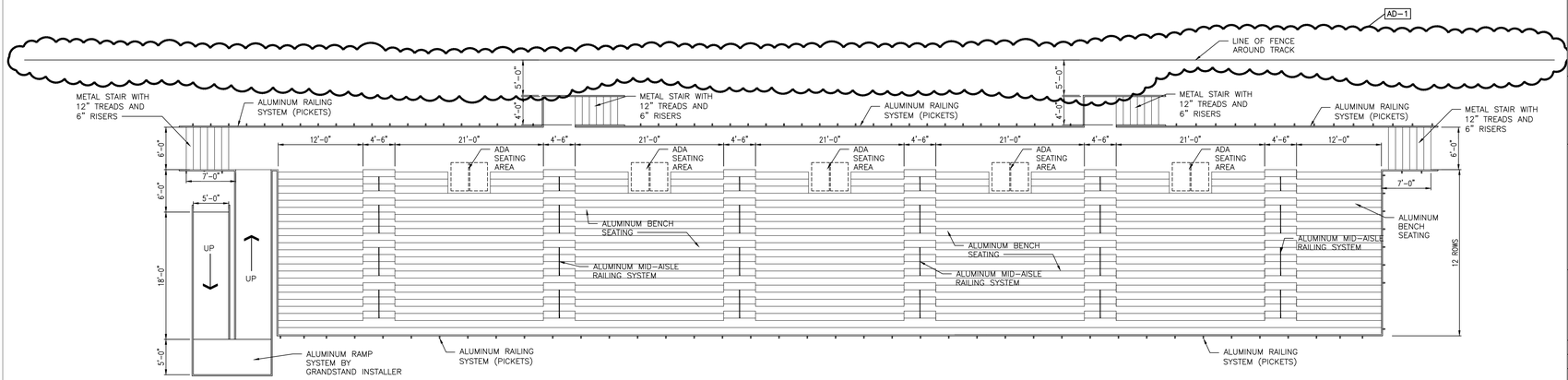


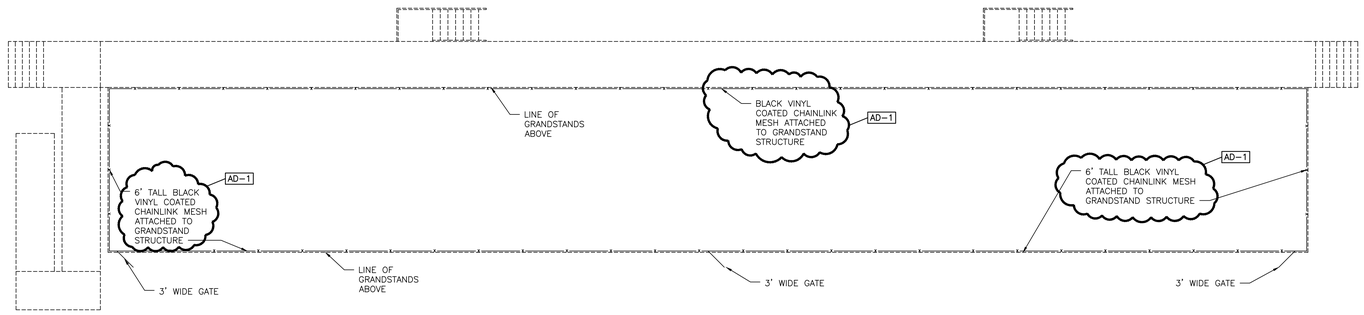
ENLARGED MECH EQUIPMENT AND SERVICE YARD SITE PLAN

SCALE: 1" = 10'



GRANDSTANDS UPPER LEVEL PLAN

SCALE: 1/8" = 1'-0"



GRANDSTANDS LOWER LEVEL PLAN

SCALE: 1/8" = 1'-0"

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
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PROJECT 21-107
DATE 07/19/22
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB JPB

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/09/22	ADDENDUM NO. 1

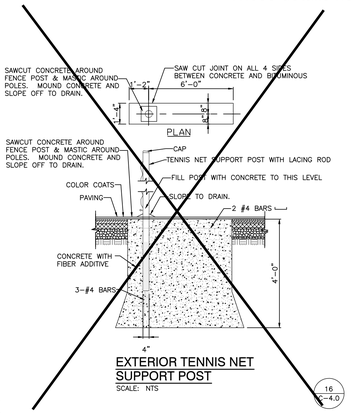
DRAWING
AD-1 GRANDSTAND PLANS AND ENLARGED SITE PLAN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
C-2.2

These details not in this project

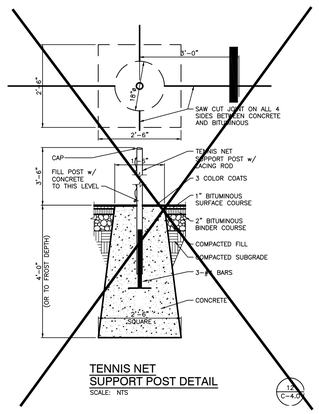
AD.01



EXTERIOR TENNIS NET SUPPORT POST

SCALE: NTS

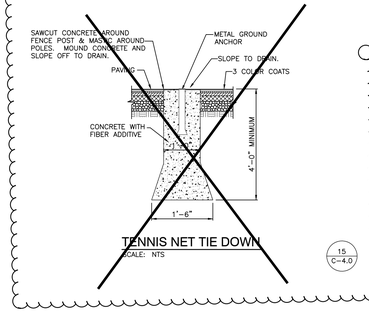
16 C-4.0



TENNIS NET SUPPORT POST DETAIL

SCALE: NTS

12 C-4.0



TENNIS NET TIE DOWN

SCALE: NTS

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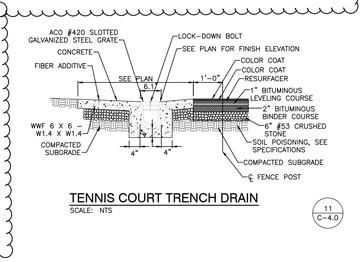
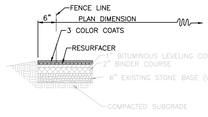


TENNIS COURT TRENCH DRAIN

SCALE: NTS

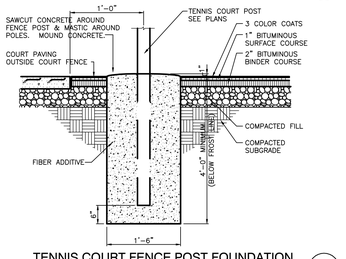
11 C-4.0



TENNIS COURT PAVING

SCALE: NTS

14 C-4.0



TENNIS COURT FENCE POST FOUNDATION

SCALE: NTS

13 C-4.0

Figure 43a

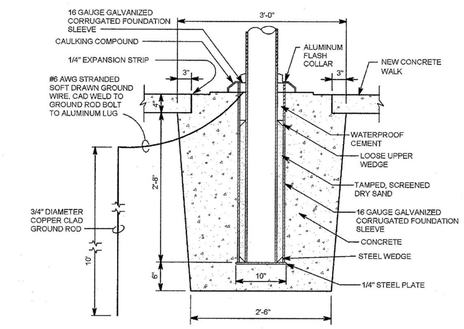
INTERNATIONAL SYMBOL OF ACCESSIBILITY PROPORTIONS

NOT TO SCALE

Figure 4b

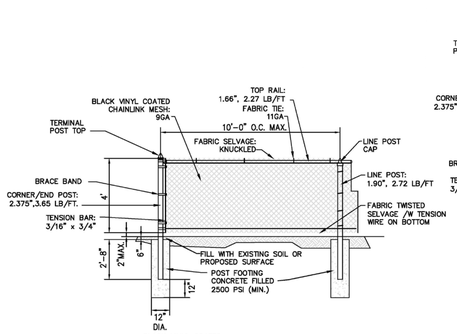
INTERNATIONAL SYMBOL OF ACCESSIBILITY DISPLAY CONDITIONS

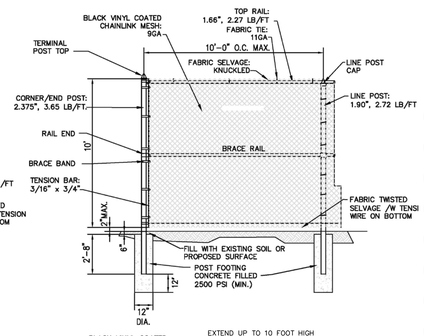
NOT TO SCALE

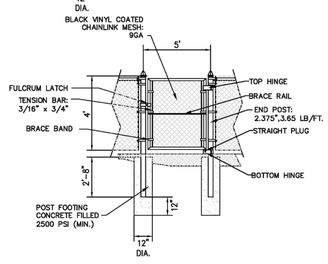


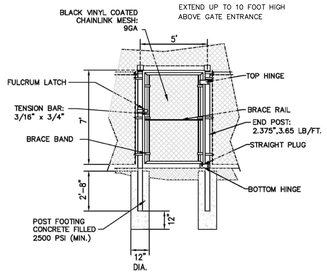
FLAG POLE FOUNDATION

NOT TO SCALE



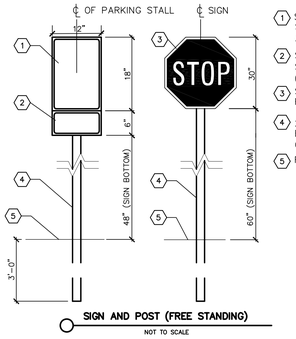






FENCE/GATE DETAIL

NOT TO SCALE



KEYED NOTES

1. STANDARD USDOT R7 SIGN (BOTH SIDES–WHERE APPLICABLE).
2. SUPPLEMENTAL SIGNS, $—FINE AS APPLICABLE. (OPTIONAL)
3. STANDARD USDOT R1–1 STOP SIGN
4. 2"x2" STEEL TUBE EXTENDED INTO GROUND, 3'–0"
5. FINISH GRADE.

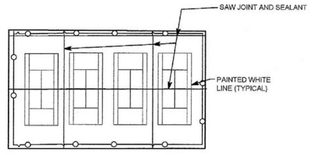
SIGN AND POST (FREE STANDING)

NOT TO SCALE

NOTE (R7 SIGN): THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM SUPPLIERS LISTED IN BY MAKER. THE SIGN MUST BE SUPPLEMENTED WITH AMOUNT OF TAX DUE FOR ILLEGALLY PARKING IN THE RESERVED SPACE(S). A MUNICIPALITY MAY IMPOSE. CONFIRM WITH LOCAL REGULATIONS.

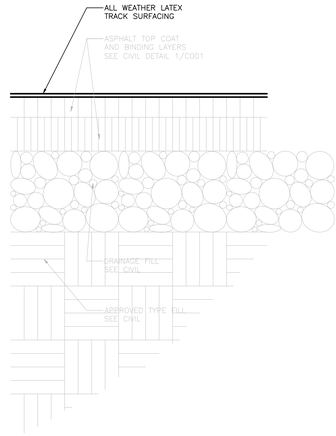
(USDOT R-7) ACCESSIBILITY SIGNAGE

NOT TO SCALE



TENNIS COURT SAW JOINT LAYOUT DETAILS

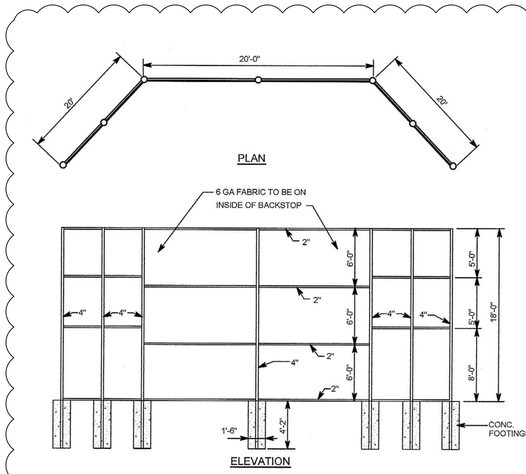
NOT TO SCALE



ATHLETIC SURFACE

SCALE: NTS

4 C-4.0



ELEVATION

SOFTBALL/BASEBALL BACKSTOP

NO SCALE

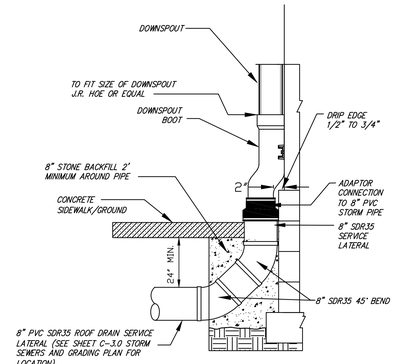
4 C6.3

SOFTBALL/BASEBALL BACKSTOP

SCALE: NTS

AD-1

NOTE: BASEBALL BACKSTOP SHALL BE 25 FEET HIGH WITH 10 FOOT HOOD CONSTRUCT IN 5 FOOT HIGH SECTIONS.



(DOWN SPOUT) ROOF DRAIN PIPE CONNECTION

NOT TO SCALE

GIBRALTAR DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21–107
DATE 07/22/22
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT RAT

DONALD C. TORRENCE REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD–1	08/09/22	ADDENDUM NO. 1

DRAWING

DETAILS & SPECIFICATIONS

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET

C-4.0

Z:\2022-5033 Taft Athletic Fields\dwg\2022-5033 Details.dwg 8/8/2022 2:23:36 PM CDT

INTERIOR/EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA	○	6" LED DOWNLIGHT	LITESTRY #LTR-6RD-N-8L8L-DMI-IC-LTR-6RD-T-8L-840K8-MD-8 OR HALO #CH6RD010 / HM6128AD / 6MDHWF OR SPECTRUM #SGICE6LED08 SERIES	MVOLT 0-10V DIM - -	LED 5000K MAX 19W MIN 1800LM	RECESSED LAY-IN/ DRYWALL	-VERIFY TRIM FINISH WITH ARCHITECT
EB	▭	EXTERIOR LED WALL PACK	LITHONIA #WST-P2-540K-VF-277-XX OR HUBBELL #TRP SERIES OR MCGRAW #188 SERIES	MVOLT - -	LED 5000K MAX 25W MIN 3000LM	WALL MTD 10'-6" AFG	-INTEGRAL EMERGENCY OPERATION BATTERY
FA	▭	4' SURFACE THIN PROFILE FIXTURE WITH LENS TYPE TO BE SELECTED BY ARCHITECT	LITHONIA® #STL4-40L-MV-EZ1-LP835 OR APPROVED EQUAL	MVOLT 0-10V DIM - -	LED 5000K MAX 35W MIN 3800LM	SURFACE MOUNTED - -	-VERIFY FINISH AND LENS TYPE WITH ARCHITECT - -
XA	⊗ ⊗	SINGLE FACE EXIT SIGN WITH 6" GREEN LETTERS, CAST ALUMINUM BODY, 90 MINUTE NI-CAD BATTERY BACK UP	LITHONIA LE SERIES OR APPROVED EQUAL	MVOLT - -	LED - MAX 5W -	CEILING/ WALL	-FURNISH WITH ARROWS AS REQD BY CODE - -
EM	▭ ▭ ▭ ●	FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER	FIXTURES LESS THAN 10000 LM: BODINE FACTORY INSTALLED BATTERY OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED) FIXTURES GREATER THAN 10000LM: MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)	120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR -INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS

1. ALL INTERIOR AND EXTERIOR FIXTURE STANDARD FINISHES TO BE SELECTED BY ARCHITECT.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:	
		WATTS	HP	MCA	FLA	AMPS						C/B	CABLE	C	MC.	EC.
TEF-1	TOILET EXHAUST FAN	1656	3/4	-	-	-	-	120	1	LP-COMM	54	25A/1P	2 #10 & 1 #10 GRD	3/4"	-	X
GEF-1	GENERAL EXHAUST FAN	696	1/4	-	-	-	-	120	1	LP-COMM	56	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	X
GEF-2	GENERAL EXHAUST FAN	696	1/4	-	-	-	-	120	1	LP-COMM	58	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	X
GEF-3	GENERAL EXHAUST FAN	696	1/4	-	-	-	-	120	1	LP-COMM	60	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	X
WH-1	WATER HEATER	14958	-	-	18	-	-	480	3	HP-COMM	37-39-41	25A/3P	4 #10 & 1 #10 GRD	3/4"	-	-
RCP-1	RECIRCULATION PUMP	528	1/6	-	-	-	-	120	1	LP-COMM	57	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	-
WS-1	WATER SOFTENER	500	-	-	-	-	-	120	1	LP-COMM	59	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	-

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:	
		WATTS	HP	MCA	FLA	AMPS						C/B	CABLE	C	MC.	EC.
ECH-1	CEILING MOUNTED ELECTRIC CABINET HEATER	5000	-	-	-	6	-	480	3	HP-COMM	VARIES	15A/3P	4 #12 & 1 #12 GRD	3/4"	-	X
ECH-2	CEILING MOUNTED ELECTRIC CABINET HEATER	10000	-	-	-	12	-	480	3	HP-COMM	VARIES	15A/3P	4 #12 & 1 #12 GRD	3/4"	-	X
ECH-3	WALL MOUNTED ELECTRIC CABINET HEATER	4800	-	-	-	11.3	-	277	1	HP-COMM	VARIES	25A/1P	2 #10 & 1 #10 GRD	3/4"	-	X
ECH-4	WALL MOUNTED ELECTRIC CABINET HEATER	3000	-	-	-	10.8	-	277	1	HP-COMM	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	X
ECH-5	WALL MOUNTED ELECTRIC CABINET HEATER	1500	-	-	-	12.5	-	120	1	LP-COMM	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	-	X
EUH-1	UNIT HEATER	7500	-	-	-	9	-	480	3	HP-COMM	VARIES	15A/3P	4 #12 & 1 #12 GRD	3/4"	-	X
EUH-2	UNIT HEATER	10000	-	-	-	12	-	480	3	HP-COMM	VARIES	20A/3P	4 #12 & 1 #12 GRD	3/4"	-	X
EUH-3	UNIT HEATER	15000	-	-	-	18	-	480	3	HP-COMM	VARIES	25A/3P	4 #10 & 1 #10 GRD	3/4"	-	X

FIELD LIGHTING LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
F1	LED TYPE SPORTS LIGHTING, 80'-0" POLE WITH AERIAL LIGHT	MUSCO OR APPROVED EQUAL #TLC-LED-1500 x 6	480V/3PH - - -	LED 5100K 858W 960000LM	80' POLE MOUNTED - -	-
F2	LED TYPE SPORTS LIGHTING, 80'-0" POLE WITH AERIAL LIGHT	MUSCO OR APPROVED EQUAL #TLC-LED-1500 x 6	480V/3PH - - -	LED 5100K 858W 960000LM	80' POLE MOUNTED - -	-
F3	LED TYPE SPORTS LIGHTING, 80'-0" POLE WITH AERIAL LIGHT	MUSCO OR APPROVED EQUAL #TLC-LED-1500 x 6 #TLC-LED-600 X 1	480V/3PH - - -	LED 5100K 916W 1015600LM	80' POLE MOUNTED - -	-
F4	LED TYPE SPORTS LIGHTING, 80'-0" POLE WITH AERIAL LIGHT	MUSCO OR APPROVED EQUAL #TLC-LED-1500 x 6 #TLC-LED-600 X 1	480V/3PH - - -	LED 5100K 916W 1015600LM	80' POLE MOUNTED - -	-

PANEL LP-COMM

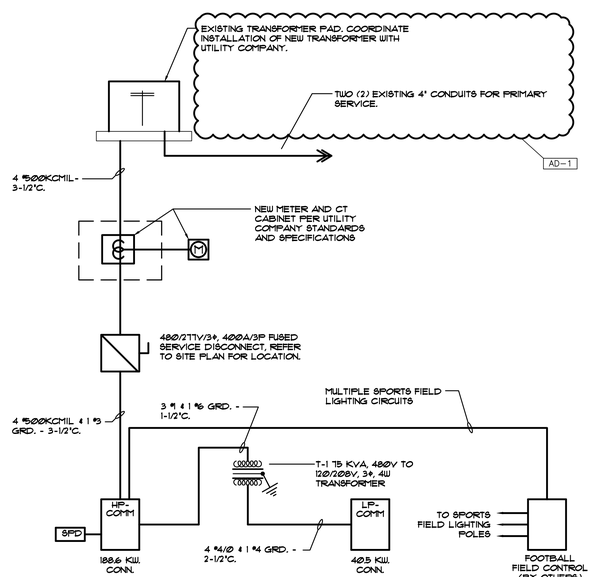
TOTAL KW: 40.5 | ENCLOSURE: NEMA-1 | PHASE: 3Φ | VOLTAGE: 120 / 208
MOUNTING: SURFACE | BUSSING: COPPER | FAULT CURRENT RATING: 22000 AIC | MCB(AMPS): 225
FEEDER: 4 #4/0 & 1 #4 GRD. - 2 1/2"C. | LOCATION:

LOAD DESCRIPTION	C/B TRIP	C/B POLE	LOAD A	LOAD B	LOAD C	CCT. NO.	LOAD A	LOAD B	LOAD C	C/B TRIP	C/B POLE	LOAD DESCRIPTION
REC - POPCORN	20	1	1320			1 2	900			20	1	LTG - WEST
REC - HOT DOG	20	1		1200		3 4		700		20	1	LTG - EAST
REC - COFFEE MAKER	20	1			1200	5 6			200	20	1	LTG - EXTERIOR
REC - HOT CHOCO	20	1	1200			7 8	1000			20	1	REC - EXTERIOR
REC - NACHO	20	1		1320		9 10		200		20	1	REC - MECH
REC - MICROWAVE	20	1			1400	11 12			600	20	1	REC - STORAGE
REC - SODA COOLER	20	1	800			13 14	1200			20	1	REC - CONCESSIONS
REC - FRIDGE	20	1		1200		15 16		600		20	1	REC - RESTROOMS
HANDRYER - MEN	20	1			1400	17 18			800	20	1	REC - FOOTBALL STOR
HANDRYER - MEN	20	1	1400			19 20	1000			20	1	REC - T4F STORAGE
HANDRYER - WOMEN	20	1		1400		21 22		1400		20	1	REC - TICKETS
HANDRYER - WOMEN	20	1			1400	23 24			1200	20	1	OH DOOR - FOOTBALL
HANDRYER - WOMEN	20	1	1400			25 26	1200			20	1	OH DOOR - T4F
FACP	20	1		600		27 28		500		20	1	TIME CLOCK - MECH
FACP	20	1			600	29 30			1200	20	1	SCOREBOARD
ECH-5	20	1	1500			31 32	1200			20	1	GAME CLOCK
SPARE	20	1				33 34		1200		20	1	GAME CLOCK
SPARE	20	1				35 36			1200	20	1	GAME CLOCK
SPARE	20	1				37 38				20	1	SPARE
SPARE	20	1				39 40				20	1	SPARE
SPARE	20	1				41 42				20	1	SPARE
SPARE	20	1				43 44				20	1	SPARE
SPARE	20	1				45 46				20	1	SPARE
SPARE	20	1				47 48				20	1	SPARE
SPARE	20	1				49 50				20	1	SPARE
SPARE	20	1				51 52				20	1	SPARE
SPARE	20	1				53 54				20	1	TEF-1
SPARE	20	1				55 56	696			20	1	GEF-1
RCP-1	20	1		528		57 58		696		20	1	GEF-2
WS-1	20	1			500	59 60			696	20	1	GEF-3
			7620	6328	6500		7196	5296	7552			

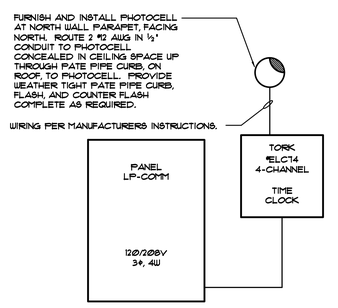
A= 14,816
B= 11,624
C= 14,052
TOTAL= 40,492

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

ONE-LINE SCHEMATIC RISER DIAGRAM



EXTERIOR LIGHTING CONTROL SEQUENCE DIAGRAM



PANEL HP-COMM

TOTAL KW: 188.6 | ENCLOSURE: | PHASE: 3Φ | VOLTAGE: 277 / 480
MOUNTING: | BUSSING: | FAULT CURRENT RATING: 22000 AIC | MCB(AMPS): 400
FEEDER: 4 #500 MCM & 1 #3 GRD. - 3-1/2"C. | LOCATION:

LOAD DESCRIPTION	C/B TRIP	C/B POLE	LOAD A	LOAD B	LOAD C	CCT. NO.	LOAD A	LOAD B	LOAD C	C/B TRIP	C/B POLE	LOAD DESCRIPTION
EUH-1 - MECH	15	3	2500			1 2	1666			15	3	ECH-1 - MEN
				2500		3 4		1666				
					2500	5 6			1666			
ECH-1 - CONCESS	15	3	1666			7 8	3333			15	3	ECH-2 - MEN
				1666		9 10		3333				
					1666	11 12			3333			
ECH-1 - CONCESS	15	3	1666			13 14	4800			25	1	ECH-3 - FAMILY
				1666		15 16				20	1	SPARE
					1666	17 18			3000	20	1	ECH-4 - TICKET
ECH-1 - WOMEN	15	3	1666			19 20	3333			20	3	EUH-2 - T4F
				1666		21 22		3333				
					1666	23 24			3333			
ECH-2 - WOMEN	15	3	3333			25 26	5000			25	3	EUH-3 - SPORTS
				3333		27 28		5000				
					3333	29 30			5000			
ECH-2 - WOMEN	15	3	3333			31 32	2860			30	3	LTG - FOOTBALL F1
				3333		33 34		2860				
					3333	35 36			2860			
WH-1 - MECH	25	3	4986			37 38	2860			30	3	LTG - FOOTBALL F2
				4986		39 40		2860				
					4986	41 42			2860			
LTG - FOOTBALL F3/F4	30	3	2860			43 44	2860			30	3	LTG - FOOTBALL F3
				2860		45 46		2860				
					2860	47 48			2860			
SPARE	20	1				49 50	2860			30	3	LTG - FOOTBALL F4
SPARE	20	1				51 52		2860				
SPARE	20	1				53 54			2860			
SPD	30	3				55 56	14816			125	3	XFMR-T1
						57 58		11624				
						59 60			14052			
			22010	22010	22010		44388	36396	41824			

A= 66,398
B= 58,406
C= 63,834
TOTAL= 188638

NOTE: REFER TO GENERAL NOTE "B" FOR ADDITIONAL INFORMATION

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN
MILLIES ENGINEERING GROUP (219) 924-5400 www.milliesengineeringgroup.com

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT 21-107
DATE 07/19/22
COORDINATED BY SM
DRAWN BY AG
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

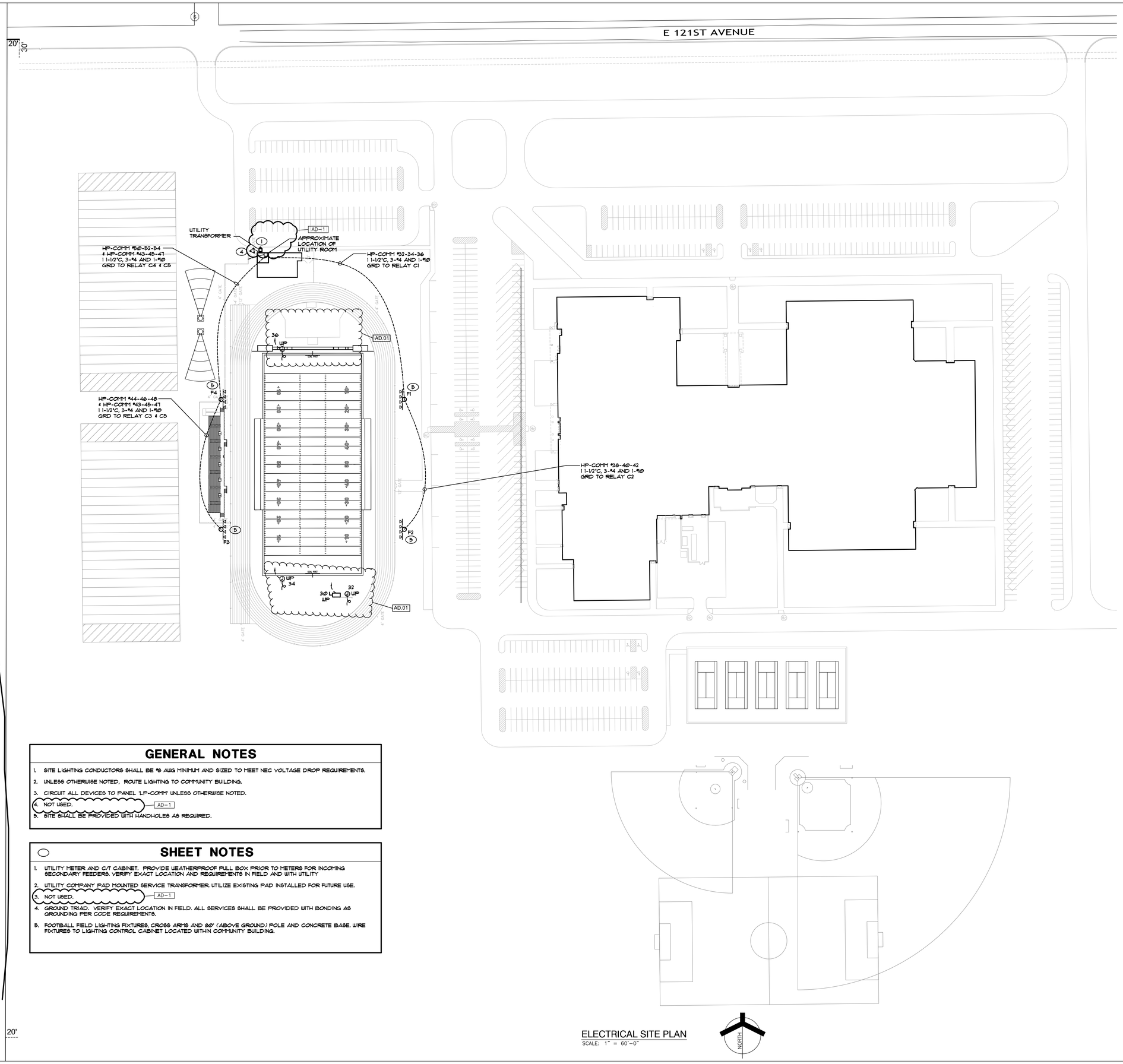
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/09/22	ADDENDUM NO. 1

DRAWING
ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
E-002



GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. UNLESS OTHERWISE NOTED, ROUTE LIGHTING TO COMMUNITY BUILDING.
3. CIRCUIT ALL DEVICES TO PANEL 'LP-COMM' UNLESS OTHERWISE NOTED.
4. NOT USED. AD-1
5. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.

SHEET NOTES

1. UTILITY METER AND C/T CABINET. PROVIDE WEATHERPROOF PULL BOX PRIOR TO METERS FOR INCOMING SECONDARY FEEDERS. VERIFY EXACT LOCATION AND REQUIREMENTS IN FIELD AND WITH UTILITY
2. UTILITY COMPANY PAD MOUNTED SERVICE TRANSFORMER. UTILIZE EXISTING PAD INSTALLED FOR FUTURE USE.
3. NOT USED. AD-1
4. GROUND TRIAD. VERIFY EXACT LOCATION IN FIELD. ALL SERVICES SHALL BE PROVIDED WITH BONDING AS GROUNDING PER CODE REQUIREMENTS.
5. FOOTBALL FIELD LIGHTING FIXTURES, CROSS ARMS AND 80' (ABOVE GROUND) POLE AND CONCRETE BASE. WIRE FIXTURES TO LIGHTING CONTROL CABINET LOCATED WITHIN COMMUNITY BUILDING.

ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"

NORTH

20'

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CROWN POINT, INDIANA

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PROJECT 21-107
DATE 07/19/22
COORDINATED BY SM
DRAWN BY AG
CHECKED BY DJ

DAVID G. JANNETT
REGISTERED
NO. 10302590
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/09/22	ADDENDUM NO. 1

DRAWING
ELECTRICAL SITE PLAN

PROJECT
CROWN POINT NEW TAFT MIDDLE SCHOOL - ATHLETIC SITE IMPROVEMENTS AND RELATED WORK

SHEET
ES101