ADDENDUM NO. 4

September 18, 2023

LOWELL HIGH SCHOOL SITE, BLEACHERS, AND TURF/DRAINAGE
Lowell, IN 46356

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 August 7, 2023 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 4-1 and attached Addendum No. 4 from Gibraltar Design dated September 15, 2023 and consisting of 5 pages, Specification Section 32 80 00 - Underground Sprinkler System, 33 20 00 - Water Well, and 28 drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. **Add:**

   Specification Section 32 80 00 - Underground Sprinkler System
   Specification Section 33 20 00 - Water Well

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

A. BID CATEGORY NO. 1 - SITEWORK/UTILITIES

1. **Add:**

   Specification Section 32 80 00 - Underground Sprinkler System
   Specification Section 33 20 00 - Water Well

ADDENDUM FOUR

Addendum Four (AD.04) to the drawings and specifications prepared by Gibraltar Design for **Lowell High School Site, Bleachers and Turf/Drainage** for Tri-Creek School Corporation, Lowell, 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, Addendum One, Addendum Two and Addendum Three and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 00 01 10 Table of Contents**
   A. Add new Specification Section to Division 32, Section 32 80 00 Underground Sprinkler System
   B. Add new Specification Section to Division 33, Section 33 20 00 Water Well.
2. **Specification Section 11 68 33 Athletic Field Equipment**
   A. Add Paragraph 2.3, Baseball and Softball Batting Cages as follows:

   "2.3 Baseball and Softball Batting Cages

   1. Batting Cage System: As manufactured by Aluminum Athletic Equipment, Royersford, PA, or approved equal, Models #BT-141455 and #BT-121470, with all accessories for a complete system.
      a. Contractor is to provide the Concrete Slab as detailed on the project drawings in conjunction with the concrete in-ground pole bases with sleeves.
         1) Provide and Install stainless steel eye-bolts imbedded in concrete slab per the manufacturers requirements.
      b. Provide all poles, netting, cables, and all accessories to make a complete system.
      c. Provide and install inside each batting cage, artificial batting cage turf, BCT – Batting Cage Turf as supplied by On Deck Sports, Braintree, Massachusetts.
         1) Color: Solid Green.
         2) Face Weight: 18 oz.
         3) Yarn Type: Mono.
         4) Height: 3/8-inch.
         5) Backing: Drainable, Latex.
         6) Size: approximately 15-feet by 55 and 75 feet respectively, covering the concrete of both batting cages."

3. **Specification Section 32 80 00 Underground Sprinkler System**
   A. Add Specification Section 32 80 00, Underground Sprinkler System, included with this addendum, to the Project Manual.
4. **Specification Section 33 20 00 Water Well**
   A. Add new Specification Section 33 20 00, Water Well, included with this addendum, to the Project Manual.

DRAWINGS

For each sheet listed in this Addendum, refer to attached full size drawing sheet(s) for revisions, unless noted otherwise.

1. **Sheet C-2.0**
   A. The concrete pads for the soccer field bleachers and covered players benches we enlarged.
   B. The Batting cages were changed to refer to Sheet C-5.5 for construction.
   C. Chain Link Fencing has been added around the three Transformer Pad locations.
   D. The football field south end zone play area has been enlarged. The south end zone asphalt area has had the barrier curbing removed.
   E. The Transformer Pad location near the Community Building has been moved. A chain link fence was added around it.
   F. The Transformer Pad location near the Community Building has been moved. A chain link fence was added around it.
   G. The gate at the northwest entrance has been moved and is now a powered gate.
   H. The gate at the west entrance to the northern drive has been modified to be a powered gate.
   I. A new powered gate has been added on the northern road at the JV baseball field.
   J. The gate on the eastern road entrance is now powered.
   K. The power pole at the west entrance is to be relocated according to the MEP/Electrical plan set.
2. **Sheet C-2.1**
   A. The same modifications mentioned on the MASTER SITE PLAN have been enlarged on this sheet.
3. **Sheet C-2.2**
   A. The same modifications mentioned on the MASTER SITE PLAN have been enlarged on this sheet.
4. **Sheet C-3.1**
   A. MH/OG #64 has been changed to MH/OG #69.
   B. The invert elevation for the existing Open Grate Manhole in the center of the parking lot was adjusted.
   C. The invert elevation for MH/OG #52 was corrected.

5. **Sheet C-3.2**
   A. A note regarding storm stubs for downspout connections has been added.
   B. Downspout connections for all dugouts have been added.
   C. Downspout connections for the Community Building have been added.
   D. The football field south endzone has an additional two structures #70 and #71.
6. **Sheet C-3.3**
   A. Clarification: add 8" downspout line with min 1% slope from the 3 ticket booths to the nearest storm sewer line.
   B. Downspout connections for all dugouts have been added.
   C. Downspout connections for the Northstar Building have been added.
   D. The storm line between CB#5 and CB#6 has been corrected.
7. **Sheet C-4.1**
   A. Sanitary and water stubs to the future Natatorium Building have been added.
8. **Sheet C-4.2**
   A. Existing sanitary sewer text has been turned on.
   B. The distance from MH "I" to the Ex. MH has been corrected.
9. **Sheet C-5.2**
   A. The tennis court saw cut joint layout detail was modified.
   B. Revised the foundation for "Tennis Fence Section/Elevation" and "Tennis Gate Elevation"
10. **Sheet C-6.0**
    A. Modified to match storm water plan sheets.
11. **Sheet ES101**
    A. Delete note to relocate some electrical panels and add a note removing them.
    B. Clarify replacing Existing Panel "DPHS1" with New Panel "DPHS1".
12. **Sheet ES102**
    A. Note feeder to New Main Distribution Panel "NSMDP".
    B. New routing for some of the feeder to Panel "SFH1".
    C. Clarify Main Disconnect, Panelboards and transformer for the Maintenance Storage Building.
13. **Sheet ES103**
    A. Add power receptacle at the play clocks.
    B. Delete the flush in-ground boxes and receptacles located at the 50-yard line.
    C. Add a weatherproof enclosure for data outlet in the wall with a conduit routed up to the press box as shown.
14. **Sheet ES106**
    A. Add Plan Note to Soccer Field Scoreboard

15. Sheet ES107

A. Delete the extra Tennis Court lighting fixture and pole.

B. Add Structural steel channel supports for electrical equipment at Tennis Platform.

16. Sheet ES109

A. New location of relocated transformer.

B. Added outline for future natatorium.

17. Sheet ES111

A. New location of relocated transformer.

B. Added two gate locations.

C. Shifted gate location near tennis court.

18. Sheet ES112

A. New location of relocated transformer.

B. Shifted gate location near tennis court.

C. Deleted gate location on north side of site.

19. Sheet E-101

A. Delete Timeclock "TCTC-1" on Tennis Platform Electrical Plans

B. Clarify Division 26 shall provide all of the electrical equipment (panelboards, disconnects, sports lighting, relay cabinets, timeclocks, etc.

C. Add structural steel channel supports for the electrical equipment at the Tennis Court Platform.

20. Sheet E-102

A. Clarify Division 26 shall provide all of the electrical equipment (panelboards, disconnects, sports lighting, relay cabinets, etc.

B. Delete timeclocks in Ticket Booths noted to be provided as part of the Site, Bleachers and Turf/Drainage project. Timeclocks for Ticket Booths will be provided in High School Renovations and New Sports Complex project.

C. Modify lights and wiring devices in Ticket Booths.

21. Sheet E-501

A. Refer to revised full-size drawing sheet, included in this addendum.

22. Sheet E-602

A. Add Fixture Type SL-1 (Flag Pole) light to Fixture Schedule.

B. Modify other lighting fixtures on the schedules.

23. Sheet E-603

A. Add Panel Schedule for the New Panel "DPHS1", which replaces the Existing Panel "DPHS1".

B. Modifications to some of the Panel Schedules.

24. Sheet E-604

A. Modifications to some of the Panel Schedules.

25. Sheet E-605

A. Delete Panel "2NSL1" from this sheet.

B. Modifications to some of the Panel Schedules.

26. Sheet E-606

A. Add Panel "2NSL1" to this sheet.

B. Modifications to some of the Panel Schedules.

27. Sheet E-702

A. Change feeder to Panel "SFH1".

B. Show modifications to Panel "DPHS1" and "SDP".

C. Change feeder to Panels "SDP" and "DPHS1".

28. Sheet T-101

A. New connectivity location at the 50-yard line

Pages 1 through 5, inclusive, Spec Sections 32 80 00 and 33 20 00, and twenty-eight (28) full-size drawings, constitute the total makeup of **Addendum Four**.

GIBRALTAR DESIGN

Joseph P. Briggs

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SECTION 32 80 00
UNDERGROUND SPRINKLER SYSTEM

1 General

1.1 Section Includes

A. Design and Installation of a complete underground irrigation system consisting of, but not necessarily limited to, the following items.

1. Pipe and fittings.
2. Sprinkler heads.
3. Control system.
4. Water supply well, well pump, pneumatic tank, pitless adapter and well system controls.
5. Booster pump(s) and system controls.
6. Installation of system and connection to water sources and testing.

1.2 Related Sections

A. Section 31 20 00 - Earthwork.

B. Section 32 13 80 - Exterior Concrete.

C. Section 33 11 00 - Water Distribution Systems: Water supply.

D. Section 33 20 00 - Water Well.

E. Division 26 - Electrical Supply.

1.3 References

A. ASTM D638 - Test Method for Tensile Properties of Plastic.

B. ASTM D1784 - Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC)Compounds.

C. ASTM D1785 - Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120.

D. ASTM D2241 - Poly(Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR).

E. ASTM D2466 - Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings.

F. ASTM D2564 - Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings.

G. ASTM D2672 - Bell-End Poly(Vinyl Chloride) (PVC) Pipe.

H. ASTM D3139 - Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals.

I. ASSE 1001 - Performance Requirements for Pipe Applied Atmospheric Type Vacuum Breakers.

1.4 Quality Assurance

A. Provide components for each product specified by same manufacturer.

B. Comply with requirements of Division 1.

1.5 Regulatory Requirements

A. Conform to Indiana Plumbing Code.

B. Conform to National Electrical Code.

C. Local Water Utility to protect aquifer.

1.6 Submittals

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

B. Include piping layout to water well, booster pump(s), water source, location and coverage of sprinkler heads, plant and landscaping features, site structures, list of fittings to be used, and control system and wiring diagrams and data.

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

D. Submit samples under provisions of Division 1.

1.7 Operation And Maintenance Data

A. Submit manufacturer's operation and maintenance data under provisions of Division 1.

B. Provide instructions for operation and maintenance of system.

C. Provide manufacturer's parts catalog.

D. Provide zone time schedule.

1.8 Extra Stock

A. Provide the following extra stock items under provisions of Division 1:

1. Two sprinkler heads of each type and size.

2. Two valve keys for manual valves.

3. Two keys for valve markers.

4. Two wrenches for each type head core and for removing and installing each type head.

1.9 Guarantees/Warranties

A. Refer to Division 1.

1.10 System Description Design Requirements

A. See Drawings for areas to be irrigated.

B. Provide zone control type system utilizing hydraulic electrical-solenoid thermal hydraulic controlled underground sprinkler system.

C. Sprinkler Spacing: Maximum of 55 percent of the diameter of sprinkler coverage.

D. Provide a sprinkler system zone of a matched precipitation rate design.

E. Arrange system so that only one control zone operates at any time, off of a four six station system, programmed for 7 10 14 days.

1. Water Usage of Each Control Zone: Approximate the total available water supply.

F. PVC plastic pipe and fittings.

G. Sprinkler System Heads: FixedPop-up type.

H. Do not locate sprinkler heads down the center of any Athletic Field.

1.11 Permit And Inspection Fees

A. Refer to Division 1.

2 Products

2.1 Pipe Materials

A. Pipe 2 Inches and Smaller:

1. ASTM D2241 and ASTM D2672; 200 psi pressure rated PVC.

a. ASTM D1784, Type 1, Grade 1 resin, 2000 psi design.

2. Fittings: ASTM D2466 solvent weld, Schedule 40.

3. Solvent Cement: ASTM D2564 for PVC pipe and fittings.

B. Pipe 2-1/2 Inches and Larger:

1. ASTM D2241 and ASTM D2672; 200 psi pressure rated PVC conforming to SDR 21 standard dimension ratio, rubber ring joint type grooves for sealing rings shall be either a separate machined part with two sealing rings or manufactured as an integral part at one end of each pipe length.

a. ASTM D1784; Type 1, Grade 1 resin, ASTM D638; 7100 psi minimum tensile strength.

2. Fittings: ASTM D2466 plastic pipe fittings, Schedule 40, mechanical grooved pipe couplings.

3. Rubbing Ring Gaskets: ASTM D3139.

C. Pipe Markings: Include manufacturer's name, nominal size, class pressure rating, pipe type, identification code, and National Sanitation Foundation Testing Laboratories (NSF) logo.

2.2 Pipe Sleeves

A. Sleeve: ASTM D1785 and ASTM D2241; PVC Class 200.

2.3 Sprinkler Heads - Acceptable Manufacturers

A. Rain Bird Sprinkler Mfg. Corp.

B. The Toro Co.

2.4 Sprinkler Heads

A. Manufacturer's standard unit designed to provide uniform coverage over the entire area of spray shown on Drawings at available water pressure.

B. See Drawings for manufacturer's model numbers.

2.5 Manual Valves - Acceptable Manufacturers

A. Crane.

B. Grinnel.

C. Kennedy.

D. Matco.

E. Mueller.

F. Nibco.

G. Red & White.

H. Webstone.

2.6 Manual Valves

A. Valves 2-1/2 Inches and Smaller: Cast bronze body, quarter turn ball valve with bronze trim, standard port, renewable seats.

B. Valves 3 Inches and Larger:

1. Cast or ductile iron body globe valve, bolted bonnet, renewable seat and disc, bronze mounted.

2. Conform to AWWA specifications.

3. Rubber ring type with bells modified for PVC pipe rubber rings.

2.7 Quick Coupling Valves - Acceptable Manufacturer

A. Rain Bird Sprinkler Mfg. Corp.

B. The Toro Co.

2.8 Quick Coupling Valves

A. Quick Coupling Valve: One piece cast brass valve with stainless steel valve spring, valve cover, double lug design and 3/4 1 inch coupler key.

2.9 Automatic Control Valves - Acceptable Manufacturer

A. Rain Bird Sprinkler Mfg. Corp.

B. The Toro Co.

2.10 Automatic Control Valves

A. Automatic Circuit Valve: Globe or angle pattern constructed of cycolac and glass filled nylon plastic with stainless steel banded female pipe thread inlet and outlet, 150 psi rated.

1. Construct diaphragm of rubber.

2. Provide normally closed valve, electrically activated by a low voltage solenoid with waterproof molded coil capable of being removed.

3. Provide valve with a self-cleaning metering pin to protect bleed ports and purge containments, and shut-off wheel for flow control and isolation.

4. Rainbird Model Series 100/150/200-PEB.

B. Automatic Pressure Regulating Valve: Globe angle pattern constructed of cycolac and glass filled nylon plastic with stainless steel banded female pipe thread inlet and outlet, 150 psi rated.

1. Construct diaphragm of rubber.

2. Provide normally closed valve, electrically activated by a low voltage solenoid with waterproof molded coil capable of being removed.

3. Provide valve with a self-cleaning metering pin to protect bleed ports and purge contaminants, shut-off wheel for flow control and isolation, built-in pressure regulation adjustable from 15 psi to 125 psi accurate to plus or minus 3 psi, with locking adjustment knob.

4. Provide valve with a Schrader type valve fitting for pressure gage attachment.

5. Rainbird Model Series 100/150/200-PES-PRS.

2.11 Irrigation Valve Boxes - Acceptable Manufacturers

A. AMETEK, Plymouth Products Division.

B. Carson Industries. Inc.

2.12 Irrigation Valve Boxes

A. Irrigation Valve Boxes and Covers: Construct of tough thermoplastic material with molded-in green color, ultra-violet light stabilizer additives, suitable for in-ground installation.

2.13 Irrigation System Controller - Acceptable Manufacturers

A. Rain Bird Sprinkler Mfg. Corp.

B. The Toro Co.

2.14 Irrigation System Controller

A. Furnish low voltage system manufactured expressly for control of automatic circuit valves of underground irrigation systems.

1. Provide unit of capacity to suit number of circuits as indicated.

B. Exterior Control Enclosure: Manufacturer's standard weatherproof enclosure with locking cover, complying with NFPA 70 (National Electric Code).

C. Internal Transformer: To convert building service voltage to control voltage of 24 volts.

1. Provide transformer with capacity allowing operation of three valves at one time plus a master valve/pump activation.

D. Circuit Control: Each circuit variable from 1 to 60 minutes.

1. Include switch for manual or automatic operation of each circuit.

E. Timing Device: Adjustable, 24 hour and 7 or 14 day clocks to operate any time of day and skip any day in a 7 or 14 day period.

1. Allow for manual or semi-automatic operation without disturbing preset automatic operation.

2. Accomplish timing by a PCB solid state device, with programming accomplished by mechanical entry using timing wheels, knobs, and slide switches.

F. Toro Model Series C or Rainbird Model Series RC.

2.15 Backflow Preventers - Acceptable Manufacturers

A. Indiana State Board of health approved.

2.16 Backflow Preventers

A. Reduced Pressure Backflow Preventers: ASSE 1013; bronze body with bronze plastic internal parts and stainless steel springs; two independently operating, spring loaded check valves; diaphragm type differential pressure relief valve located between check valves; third check valve which opens under back pressure in case of diaphragm failure; non-threaded vent outlet; assembled with two gate valves, strainer, and four test cocks.

B. Atmospheric Vacuum Breaker: Tested and approved, USC approved, ASSE 1001, CSA B64.1 and local authority having jurisdiction.

1. Heavy-duty base construction with bronze internal trim, rubber disc and full size orifices to assure pipe size and capacity.

2.17 Moisture Sensor - Acceptable Manufacturers

A. Rain Bird Sprinkler Mfg. Corp.

B. The Toro Co.

2.18 Moisture Sensor

A. Electrically measures relative change in soil moisture at the root zone, compares moisture level to preset level, overrides controller and prevents unnecessary irrigation.

1. Indicator status lights.

2. Two high-grade stainless steel sensing probes.

3. Polycarbonate case.

4. 24 VAC power.

5. Rain Bird Aquamiser micro-electronic moisture sensor.

2.19 Wind Sensor - Acceptable Manufacturers

A. R. M. Young Co.

2.20 Wind Sensor

A. Wind sentry anemometer; R. M. Young Co. Model 03101.

B. F/V converter with data logger indicator; R. M. Young Co. Model 03602.

C. Wind sensor system shall be provided with all necessary components for a complete system.

2.21 Booster Pump - Acceptable Manufacturers

A. Armstrong Pump Co.

B. Floway.

C. Bell and Gossett ITT.

D. Peerless Pump.

2.22 Booster Pump

A. Casing: Cast iron, rated for 125 psig working pressure.

B. Impeller: Bronze.

C. Shaft: Alloy steel with oil lubricated bronze sleeve bearings.

D. Seal: Carbon rotating against a stationary ceramic seat.

E. Drive: Close coupled.

2.23 Electrical Items

A. Conduit: PVC or PVC coated rigid galvanized steel (RGS) minimum 3/4 inch size, sized per NEC conduit fill.

1. Provide supports and glued joints for PVC and threaded joints for RGS.

2. Use flexible conduit for motors or movable connections.

3. Provide PVC junction boxes and fittings.

4. Provide PVC suitable for use in cold weather.

5. Provide proper supports.

B. Cable: THWN copper wire, 8 and larger standard stranded, 10 and 12 solid. Al cable shall be in conduit.

1. Wiring: UL approved for underground burial.

2. Cable wiring for 115 VAC and above.

C. Control Wiring: THWN copper wire, 8 and larger standard stranded, 10 and smaller solid.

1. Wiring: UL approved for underground direct burial.

3 Execution

3.1 Preparation

A. Route piping to avoid plants and structures.

B. Review layout requirements with other affected work.

1. Coordinate locations of sleeves to accommodate system.

2. Provide sleeves over 20 feet in length with solvent weld joints.

3. Tape or seal ends of sleeves when installed.

C. Protect landscaping and other features remaining as final work.

3.2 Trenching

A. Trench for sprinkler system to provide proper grades and slopes to drain points.

B. Keep trenches free of debris, material, or obstructions that may damage pipe.

C. Refer to Section 31 20 00.

3.3 Installation

A. Install pipe, valves, controls, and sprinklers in accordance with manufacturer's instructions.

1. Connect to water and electrical service.

B. Set sprinkler heads and box covers at finish grade.

C. Provide for thermal movement.

D. Install piping 2-1/2 inches and larger by open trench method.

E. Piping 2 inches and smaller may be installed by trenchless technique (pulled in).

1. Use open trench installation where soil conditions are unsuitable for pulling or where terrain dictates and for all main lines.

2. General procedure for trenchless installation shall be as follows.

a. Assemble lines to be "pulled-in" no less than 16 hours before "pulling".

b. Assemble lines with solvent welding couplings.

c. Pull pipe into ground with a minimum 6 inch off-set from actual staked sprinkler location.

d. Install fittings for sprinkler, valves, tees, and elbows after pipe is in ground.

e. Compact raised slits from pipe installation to original grade with vibrating roller or other acceptable compacting machine.

F. Install concrete thrust blocks at all gasketed tees, elbows, valves, and reducers.

1. Concrete for Thrust Blocks: 3,000 psi at 28 days.

G. Minimum Depth of Pipe Bury:

1. 2 Inches and Smaller: 14 inches.

2. 2-1/2 Inches to 3 Inches: 16 inches.

3. 4 Inches to 6 Inches: 18 inches.

H. Dig potholes for sprinkler heads and for required tees in pulling piping.

1. Install fittings in pulled piping by cutting into installed pipe.

2. Provide potholes for sprinkler installation only as deep as required under riser fitting so when head is set to grade, it will rest on undisturbed earth.

3. Backfill all potholes, remove all loose dirt and debris.

I. Use a sod cutting machine to remove any sod for excavation, and replace sod within 48 hours.

J. Install all sprinkler heads and quick coupling valves with triple elbow swing joints.

1. Construct the swing joints of three Schedule 40, PVC, threaded elbows and Schedule 40, PVC threaded nipples.

2. Provide swing joint which allows for adjustment of the sprinkler and quick coupling valve.

K. Enclose all automatic and manual valves in a valve box.

1. Fill all valve boxes with clean washed gravel to a minimum of 6 inches below level of pipes to insure adequate drainage.

2. Install a quick coupling valve in each valve box, connected to the main line.

3. Provide valve boxes of the proper sizes and with extension sections when required to set level with finish grade.

L. Install all above ground wiring in conduit.

M. Install buried conduit a minimum of 30 inches below final grade.

N. Provide cable wiring (for 115 VAC and above) splices only at junction box locations, using wire nuts or compression connectors.

O. Install all above ground control wiring in conduit.

1. The minimum depth of cover for control wiring is 12 inches.

2. Install in main piping trenches where possible.

3. Make all splices with Scotchlok epoxy or 3M DBY splice kits.

4. Furnish wiring in 2500 feet reels.

5. Provide 10 inch expansion coil at each connected control valve and at 100 feet intervals.

6. Ground all controllers per NEC requirements.

P. Backfill trench and compact to subgrade elevation as specified in Section 02200.

1. Protect piping from displacement.

Q. Replace plant material or structures damaged by work of this Section.

R. Provide all electrical wiring from the irrigation system controller to the system control valves.

S. Install Booster Pump on 4 inches thick concrete housekeeping pad.

1. Install in accordance with manufacturer's instructions.

2. Ensure pumps operate at specified system fluid level temperatures without vapor binding and cavitation, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.

3. Install an automatic control pressure reducing/sustaining check valve assembly on pump discharge line; Cla-Valve 92-02 series with trim.

3.4 Tests

A. After piping is installed, before sprinkler heads are installed and backfilling commences, open valves and flush system with full head of water.

B. Prior to backfill, test system for leakage and maintain 100 psi pressure for one hour.

1. System acceptable if no leakage or loss of pressure occurs during test period.

C. Test automatic operation of all equipment and that system meets coverage requirements.

3.5 Special Requirements

A. This Contractor shall be responsible for first season's start-up, end of first season's winterization, and second season's start-up.

B. Provide an irrigation circuit zone location map mounted in a 24 inches by 36 inches aluminum frame with a clear plastic shield, and shall be installed at the irrigation controllers.

1. Identify each zone by a circuit number which coordinates with the circuit numbers identified in the irrigation controllers.

C. This Contractor shall coordinate with the Contractor(s) responsible for Sections:

1. Section 32 92 19.

2. Section 32 92 23.

3. Section 32 93 00.

D. The extent of the responsibility shall be coordination of requirements for the actual number, locations, type, and spacing of sprinkler heads, and to establish zones and zone program run cycles, to provide complete coverage and required precipitation rates of the plant and landscaping features.

E. This Contractor shall obtain written approval from the Contractor(s) responsible for sections specified above.

3.6 System Demonstration

A. Instruct Owner's personnel in operation and maintenance of system, including adjusting of sprinkler heads and winterization techniques.

1. Use operation and maintenance material as basis for demonstration.

END OF SECTION

SECTION 33 20 00
WATER WELL

1 General

1.1 Section Includes

A. Applications and permits for drilling and developing well.

B. Drilling pilot hole.

C. Drilling for final water well depth.

D. Placing and grouting well casing.

E. Development of well.

F. Testing and disinfection.

G. Well pump.

1.2 References

A. ASTM A589 - Seamless and Welded Carbon Steel Water-Well Pipe

B. ASTM C33 - Concrete Aggregates.

C. ASTM C150 - Portland Cement.

D. ASTM D1785 - Poly Vinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80, and 120.

E. ASTM D2467 - Socket-Type Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.

1.3 Design Requirements

A. Provide well with producing capacity of not less than 75__ gallons of water per minute.

B. Water well work is based on following criteria:

1. Drill well to a depth of 300 feet.

2. Place 8 inch diameter casing full depth of drilling.

3. Minimum 3 inch thick cement grout to a depth of not less than 25 feet from grade.

4. Well screen to extend not less than 10 feet from end of casing.

1.4 Submittals

A. Samples, Records, and Reports: Take samples of substrata formation at 10 foot intervals and at changes in formation throughout entire depth of well. Carefully preserve samples at site in glass jars properly labeled for identification.

B. Furnish samples of water-bearing formation to qualified testing laboratory and well screen manufacturer for mechanical sieve analysis.

C. Provide Department of Natural Resources and Architect following information for record purposes:

1. Casings: Diameter, thickness, weight per foot of length, depth below grade

2. Screen: Diameter, opening size

3. Pumping Test: Static water level, maximum safe yield, drawdown at maximum yield

4. Log: Formation log indicating strata encountered

5. Alignment: Certification that well is aligned and plumb within specified tolerances

D. Provide bacteriological, physical and chemical analysis of water from finished well. Make analysis, certified by an approved testing laboratory, in accordance with local authority requirements, including the following:

1. Bacteriological Evaluation.

2. Coliform: Provide testing and report results for either multitube fermentation technique or membrane filter technique.

3. Physical and Chemical:

Color	pH	Sulfate (as SO_4)
Odor	Alk. to pH 4	CO_2
Turbidity	Nitrate (as NO_3)	Iron
Total Solids	Fluoride	Manganese
Chloride	Total Hardness	

1.5 Regulatory Requirements

A. Health Department Compliance: Comply with applicable portions of Indiana State Board of Health regulations pertaining to private water wells.

B. Protecting Water Quality: Take precautions to prevent contaminated water or water having undesirable physical or chemical characteristics from entering stratum from which well to draw its supply. Prevent contaminants from entering well either through opening or by seepage through ground surface.

C. If well becomes contaminated or water having undesirable physical or chemical characteristics or enters well due to neglect, provide casings, seals, sterilizing agents or other materials to eliminate contamination or shut-off undesirable water. Provide remedial work at no cost to the Owner.

D. Exercise care in performance of work to prevent breakdown or caving in of strata overlaying that from which water is to be drawn. Develop, pump, or bail well until water pumped from well is substantially free from sand.

E. Protect work to prevent either tampering with well or entrance of foreign matter. Upon completion, provide temporary well cap.

F. Driller's Requirements: Experienced foreman or driller to be constantly in control of well site and who has authority to take orders from Architect and, upon request, furnish well drilling information desired by Architect.

1.6 Abandonment Of Drilling

A. It is becomes necessary to abandon drilling operation before completion of water producing well, follow regulations for abandonment of well as required by local authorities having jurisdiction.

B. Should abandonment of drilling be necessary due to poor workmanship or negligence on part of Contractor, no compensation will be allowed.

C. Should abandonment of drilling be necessary due to inadequate supply of good quality water, or for such other reason that Architect deems to be no fault of Contractor, compensation for work will be based on unit prices in Contract.

2 Products

2.1 Casing

A. Provide permanent seamless and welded carbon steel pipe casing for well, complying with ASTM A589, Type IV; size, wall thickness and weight per linear foot as indicated or, if not indicated as required for project conditions.

B. Joints may be welded or threaded coupling.

2.2 Grout

A. Cement: ASTM C150, Type to suit project conditions.

B. Water: Potable.

C. Aggregate: ASTM C33, size and gradation to suit project conditions.

2.3 Well Screen

A. Construct screen of AISI Type 302/304 stainless steel, continuous slot type, fabricated by welding. Provide V-shaped openings, widening inwardly. For joints connecting screen sections, use butt-type stainless steel coupling rings. Provide screen with necessary fittings to close bottom and to provide tight seal between top of screen and well casing.

2.4 Acceptable Manufacturer - Pitless Adapter

A. Baker Manufacturing Co.

B. Whitewater Manufacturing Co.

2.5 Pitless Adapter

A. General: Provide pitless adapter of size indicated on Drawings and as specified herein.

B. Adapter: Welded steel construction, #200 watertight seal with integral conduit box, and water diverter with "O" ring seals; Model 52 as manufactured by Whitewater Manufacturing Co.

2.6 Acceptable Manufacturer - Submersible Well Pump

A. Peabody Barnes.

B. Red Jacket Pumps.

C. Floway.

D. Peerless.

E. Reda.

F. Layne-Northern.

G. Jacuzzi.

2.7 Submersible Well Pump

A. General: Provide submersible well pump as indicated, of size and capacity as scheduled.

B. Pump Base: Glass filled Noryl with stainless steel shell.

C. Impeller: Noryl.

D. Impeller Shaft: Stainless steel.

E. Motor: Epoxy resin encapsulated motor with aluminum rotor core, stainless steel inner/outer stator shells, on winding overload protection, and three-shoe carbon thrust bearing, capable of continuous operation under water at conditions specified.

F. Pump-Motor Coupling: Stainless steel.

G. Interconnector Screen: Stainless steel screen.

H. Column Pipe: Schedule 80 PVC, ASTM D1785 with ASTM D2467 solvent weld fittings.

I. Submersible Cable: Single jacketed three conductor assembly suitable for immersion in water and sized to limit the voltage drop to 7 percent at the motor terminals.

J. Controls: NEMA 3R control panel with lockable fusible disconnect switch, ON/OFF selector switch, magnetic starter with three leg overload protection, and high system pressure shut-off.

3 Execution

3.1 Well Construction

A. Drill a pilot hole, minimum 4 inch diameter, to design depth and collect samples of formation for record and for analysis to select final screen and well depth. Provide information to Architect on static level of ground water, level of water for various pumping rates, and depth to water-bearing strata. Architect will advise as to final well casing and grouting depth.

B. Enlarge pilot hole and install permanent casing, screen and grout. Provide first section of casing with hardened steel driving shoe of standard commercial quality having an outside diameter slightly larger than casing couplings where threaded couplings are used.

C. Mix grout with proportions of one cubic foot of cement (94 pound sack) with 5 to 6 gallons of water.

D. Place grout continuously to insure entire filling of annular space in one operation. Drilling operations or other work in well will not be permitted within 72 hours after grouting of casing. If quick setting cement is used, this period may be reduced to 24 hours.

E. Provide permanent casing with a temporary well cap. Top of casing 36 feet above existing grade, unless otherwise indicated.

3.2 Development

A. Develop well by such methods as will effectively extract from water bearing formation maximum practical quantity of sand, drilling mud and other fine materials in order to bring well to a maximum yield per foot of drawdown and to a sand-free condition. Perform work in a manner that does not cause settlement and disturbance of strata above water bearing formation nor disturb seal effected around well casing, reducing sanitary protection otherwise afforded by such seal.

B. Continue development of well until water pumped from well at maximum testing pumping rate is clear and free from sand. Water shall be considered sand-free when no samples, taken during test pumping, contain more than 2 parts per million of sand by weight.

3.3 Testing For Plumbness And Alignment

A. Set casing and liners round, plumb and true to line. Tests for plumbness and alignment must be made after construction of well and before its acceptance. Additional tests, however, may be made during performance of work.

B. Test plumbness and alignment by lowering into well, to depth of lowest anticipated pump setting, a section of pipe 40 feet long. Provide outer diameter of plumb not less than 1/2 inch smaller than diameter of that part of casing or hole being tested.

3.4 Testing For Yield And Drawdown

A. After well has been constructed and cleaned out and depth of well accurately measured, conduct final pumping test.

B. Provide a bailer or air ejection test as a preliminary determination of expected yield. Make preliminary tests at depths where evidence is found of sufficient quantity of water to satisfy desired yield. Provide two preliminary tests as part of this work.

C. Provide a variable capacity test pump with minimum capacity of maximum expected yield at a total head equal to drawdown in well plus head loss in pump column and discharge pipe.

D. Provide necessary discharge piping for pumping unit to conduct water to a point of disposal so as to avoid a nuisance or endanger adjacent property. Provide and maintain equipment of adequate size and type for measuring flow of water, such as a wier box or water meter. Measure elevation to water level in well.

E. Provide labor, motive power, and other necessary materials, equipment and supplies required to operate pumping unit. Final testing shall consist of 24 hours of continuous pumping after maximum drawdown has been reached. After completion of final test, remove by bailing, sand pumping or other methods, sand, stones, or other foreign materials that may become deposited in well.

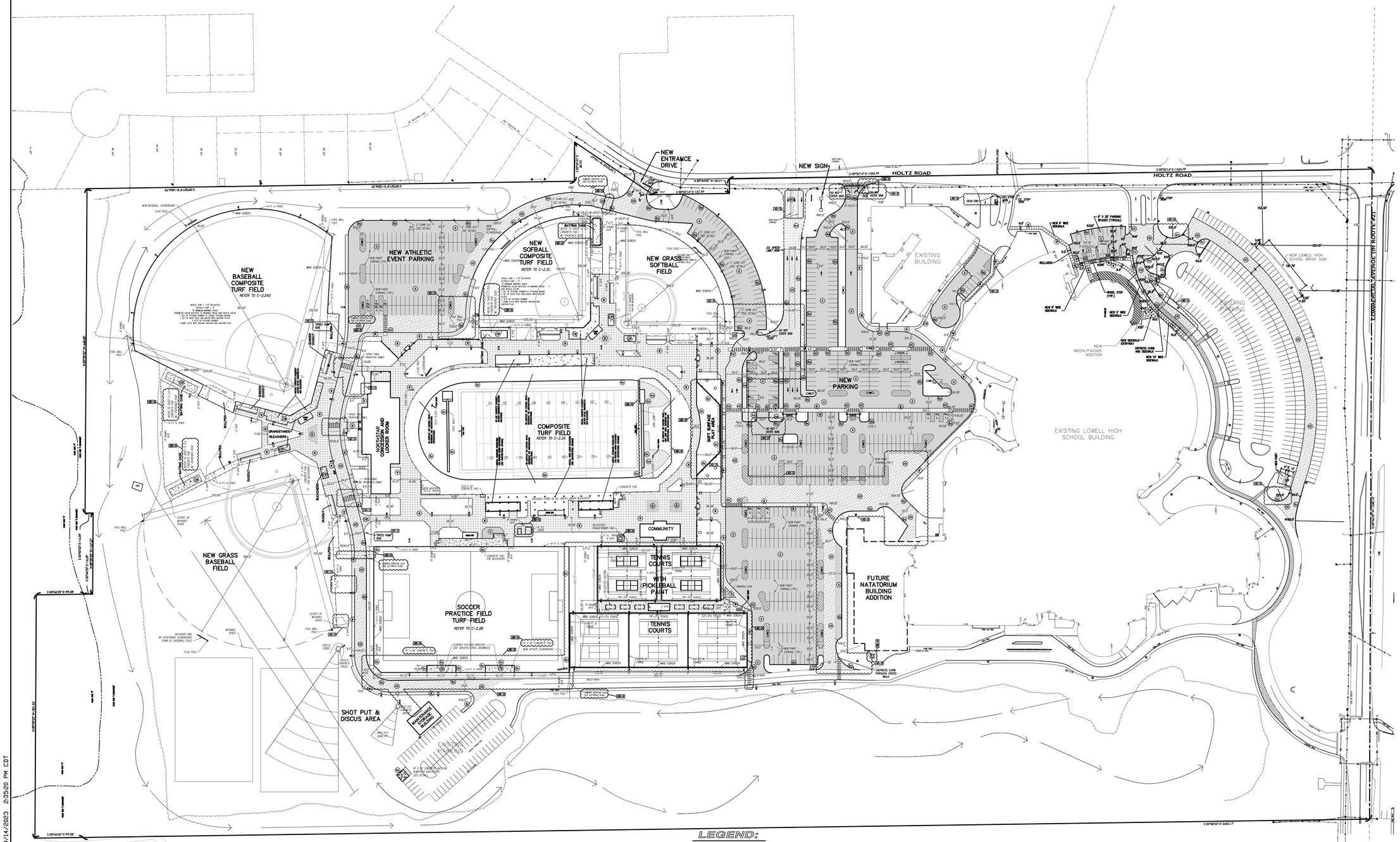
F. After test pump and auxiliary equipment have been installed, make arrangements for conducting pumping test and notify Architect three (3) days prior to starting test. Note water level elevations, referred to an assigned datum in well, test pump started and adjusted to required pumping rate. Record readings of water level in well and pumping rate at 30 minute intervals. When drawdown in well is 5 feet above top of suction screen after designated time, record maximum yield of well. Upon completion of pumping test, record returning water levels in well for a sufficient period, at time intervals so that a curve of recovery rate of well may be plotted.

3.5 Disinfection

A. Use disinfection procedures as required by governing authorities. Clean the completed, tested and developed well of foreign substances. Swab casing thoroughly using alkalis, if necessary, to remove foreign substances.

B. Disinfect well with chlorine solution of sufficient strength to provide a minimum of 100 parts per million chlorine to water within well. Introduce solution into well using gravity, pump or drop feeder. Allow a contact period of 24 hours and then pump well until chlorine residual is less than 0.2 parts per million.

END OF SECTION



LEGEND:

PROPOSED

- (A) TYPICAL ASPHALT PAVEMENT SECTION
- (HD) HEAVY DUTY ASPHALT PAVEMENT SECTION
- (Am) TYPICAL ASPHALT PAVEMENT SECTION TO BE MILLED AND RE-SURFACED
- (Aw) ASPHALT SIDEWALK PAVEMENT SECTION
- (B) DECORATIVE BRICKS
- (W) CONCRETE SIDEWALK & COMBINED CURB/WALK
- (CW) CONCRETE PAVEMENT SECTION
- (Bs) SPECIAL BARRIER CURB SECTION AROUND FOOTBALL & SOCCER FIELDS
- (Bc) BARRIER CURB SECTION
- (Hc) HANDICAP ACCESS RAMP
- HC HANDICAP SIGN
- CONTINENTAL CROSSWALK
- CHAINLINK FENCE & GATE
- DECORATIVE COLUMN & FENCE
- LIGHT POLE (SEE ELETRICAL PLAN)
- FOUL BALL POLE

NOTE(S):
1. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE TO INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

AD-3

NORTH

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

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GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DCT/AM
DRAWN BY EM
CHECKED BY DCT/AM

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

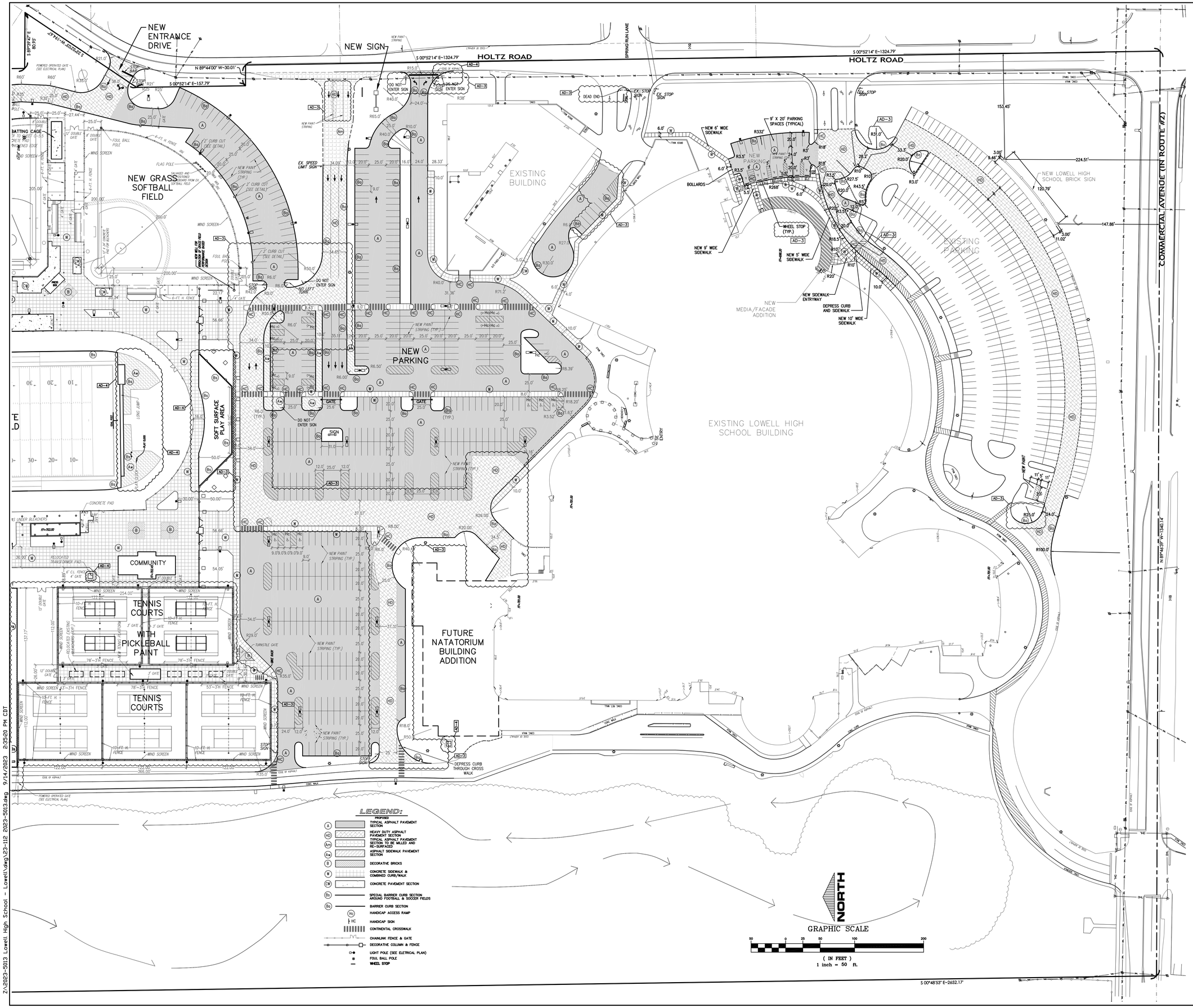
REVISIONS

MARK	DATE	ISSUED FOR
AD-3	09/07/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
MASTER SITE PLAN

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-2.0



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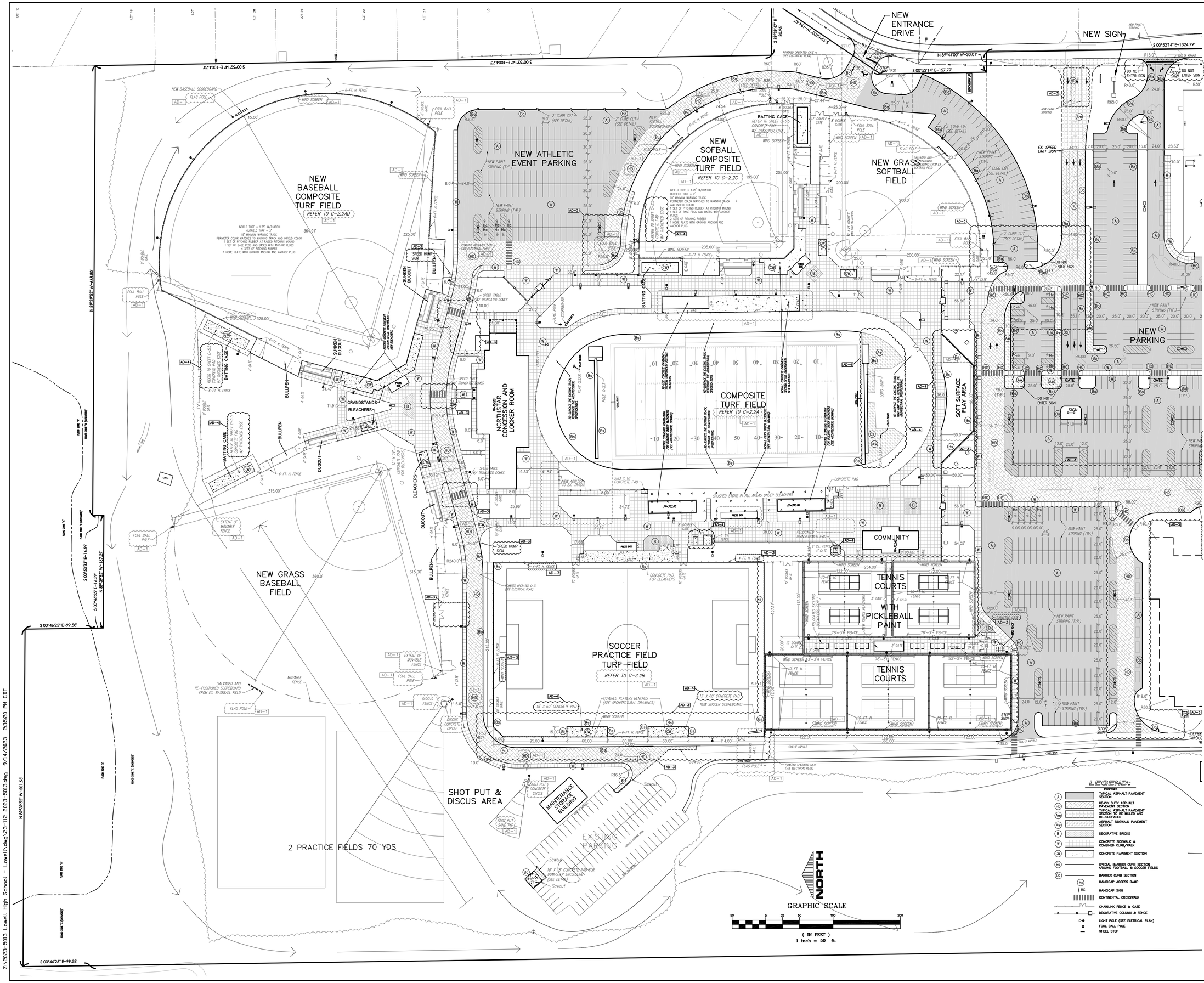
DRAWING
SITE PLAN - SOUTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-2.1



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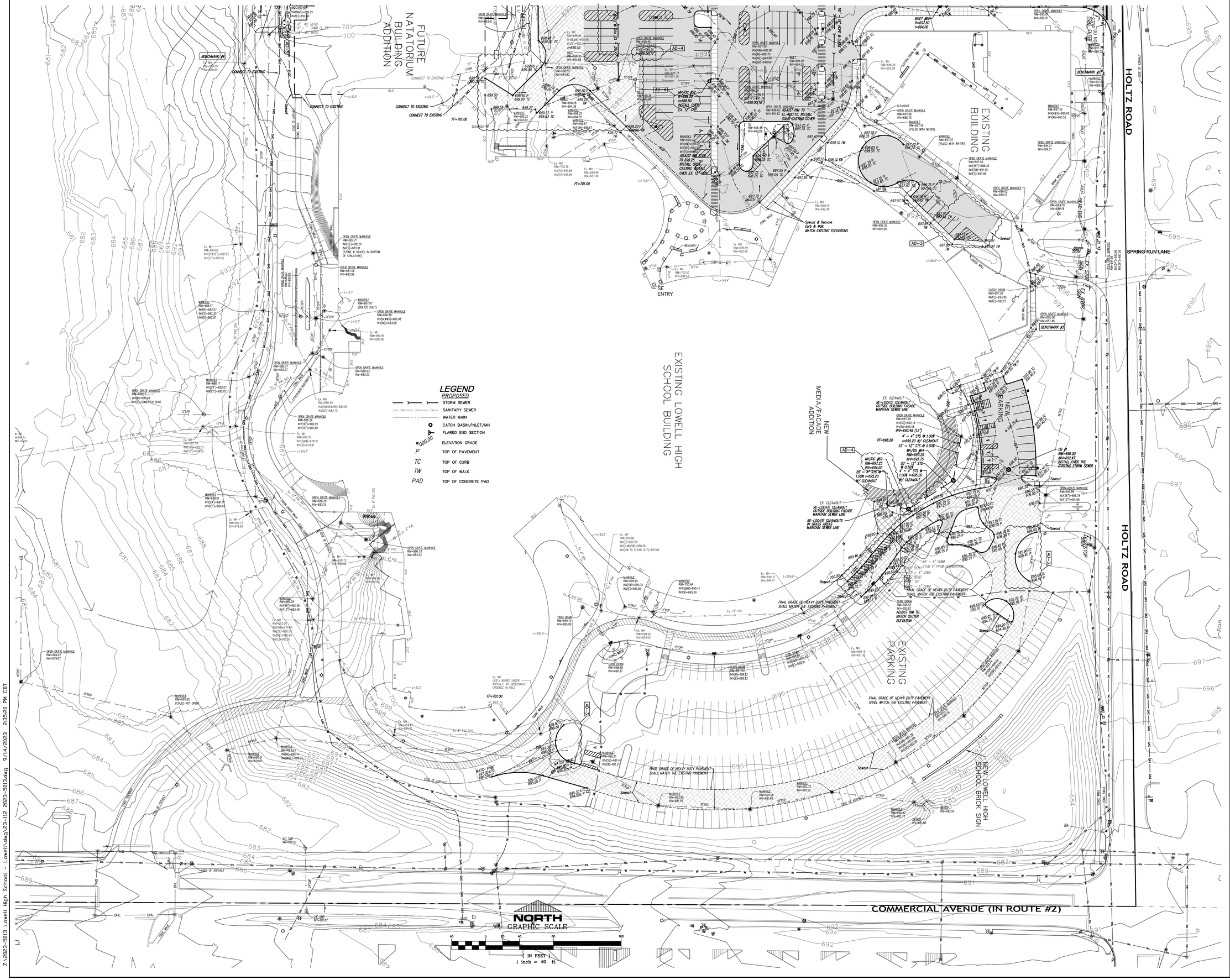
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
SITE PLAN - NORTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET AD-1
C-2.2



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DONALD C. TORRENGA 960178 STEWARD No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

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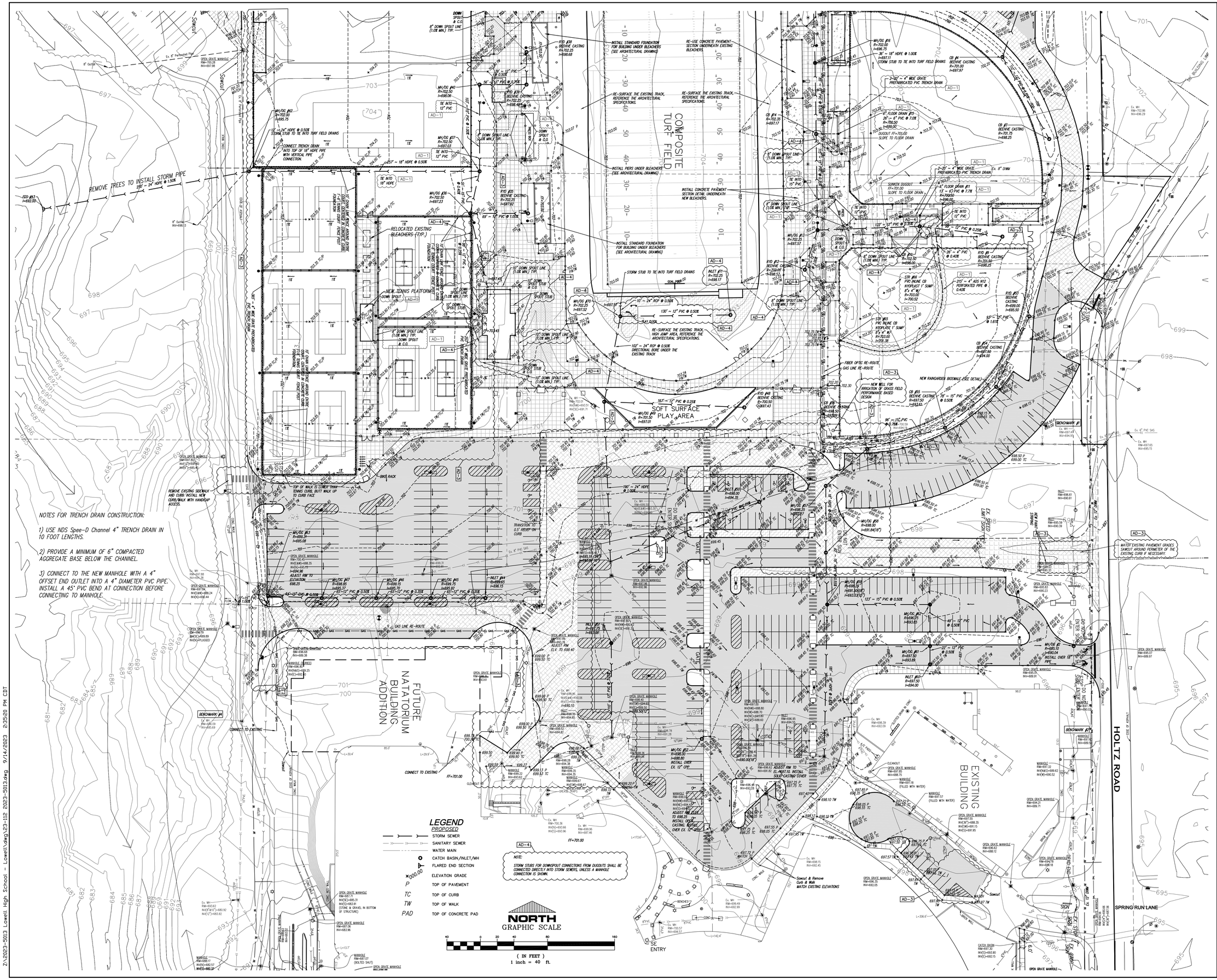
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
STORM SEWERS AND GRADING PLAN - SOUTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-3.1



NOTES FOR TRENCH DRAIN CONSTRUCTION:

1) USE NDS Spee-D Channel 4" TRENCH DRAIN IN 10 FOOT LENGTHS.

2) PROVIDE A MINIMUM OF 6" COMPACTED AGGREGATE BASE BELOW THE CHANNEL.

3) CONNECT TO THE NEW MANHOLE WITH A 4" OFFSET END OUTLET INTO A 4" DIAMETER PVC PIPE. INSTALL A 45° PVC BEND AT CONNECTION BEFORE CONNECTING TO MANHOLE.

LEGEND

PROPOSED

- STORM SEWER
- SANITARY SEWER
- WATER MAIN
- CATCH BASIN/INLET/MH
- FLARED END SECTION
- 000.00 — ELEVATION GRADE
- P — TOP OF PAVEMENT
- TC — TOP OF CURB
- TW — TOP OF WALK
- PAD — TOP OF CONCRETE PAD

AD-4

NOTE:
STORM STUBS FOR DOWNSPOUT CONNECTIONS FROM DUCOUTS SHALL BE CONNECTED DIRECTLY INTO STORM SEWERS, UNLESS A MANHOLE CONNECTION IS SHOWN.

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DRAWING
STORM SEWERS AND GRADING PLAN - SOUTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET C-3.2

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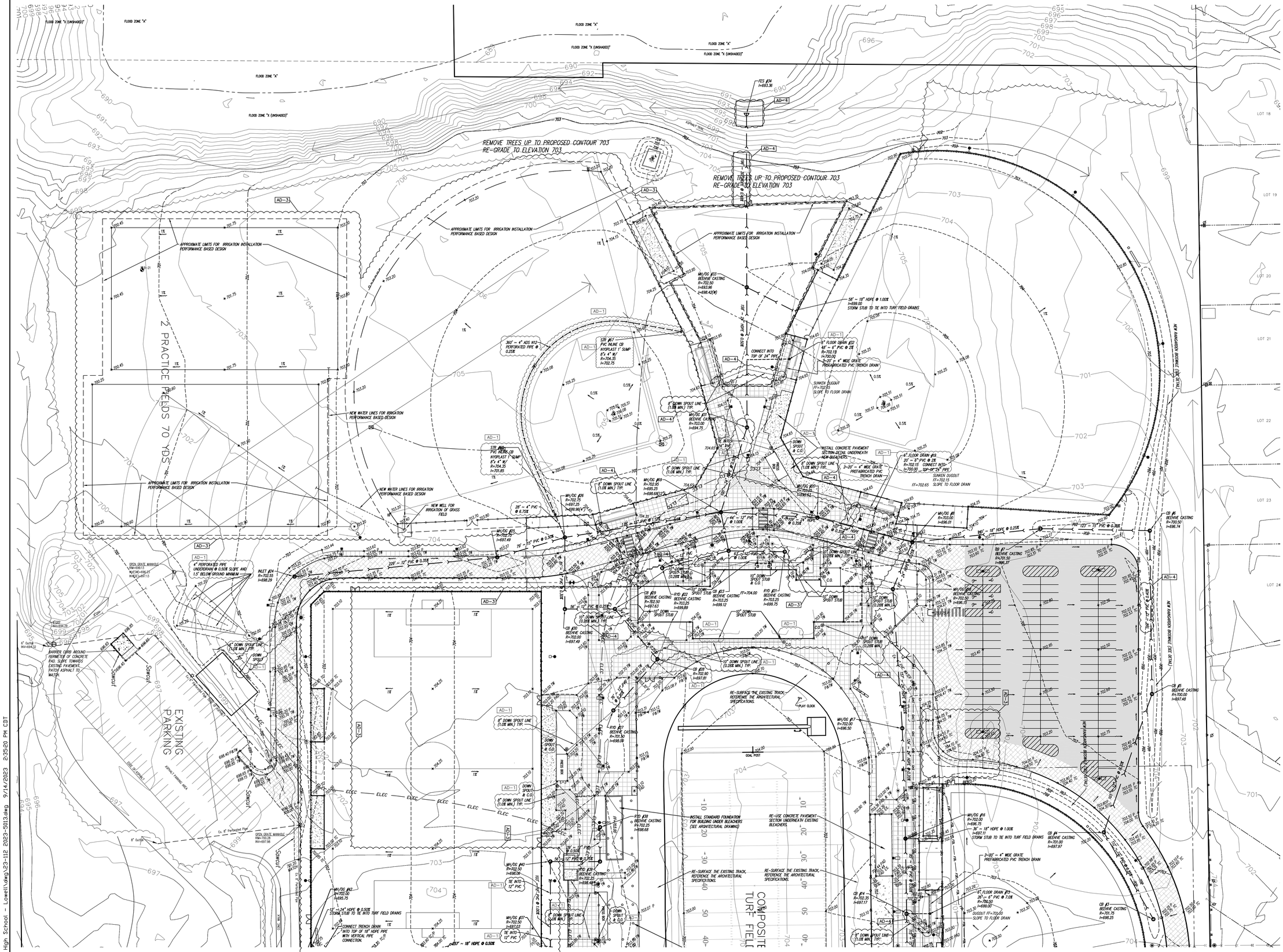

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PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

LEGEND

PROPOSED
- STORM SEWER
- SANITARY SEWER
- WATER MAIN
- CATCH BASIN/INLET/MH
- FLARED END SECTION
- ×000.00 ELEVATION GRADE
- P TOP OF PAVEMENT
- TC TOP OF CURB
- TW TOP OF WALK
- PAD TOP OF CONCRETE PAD

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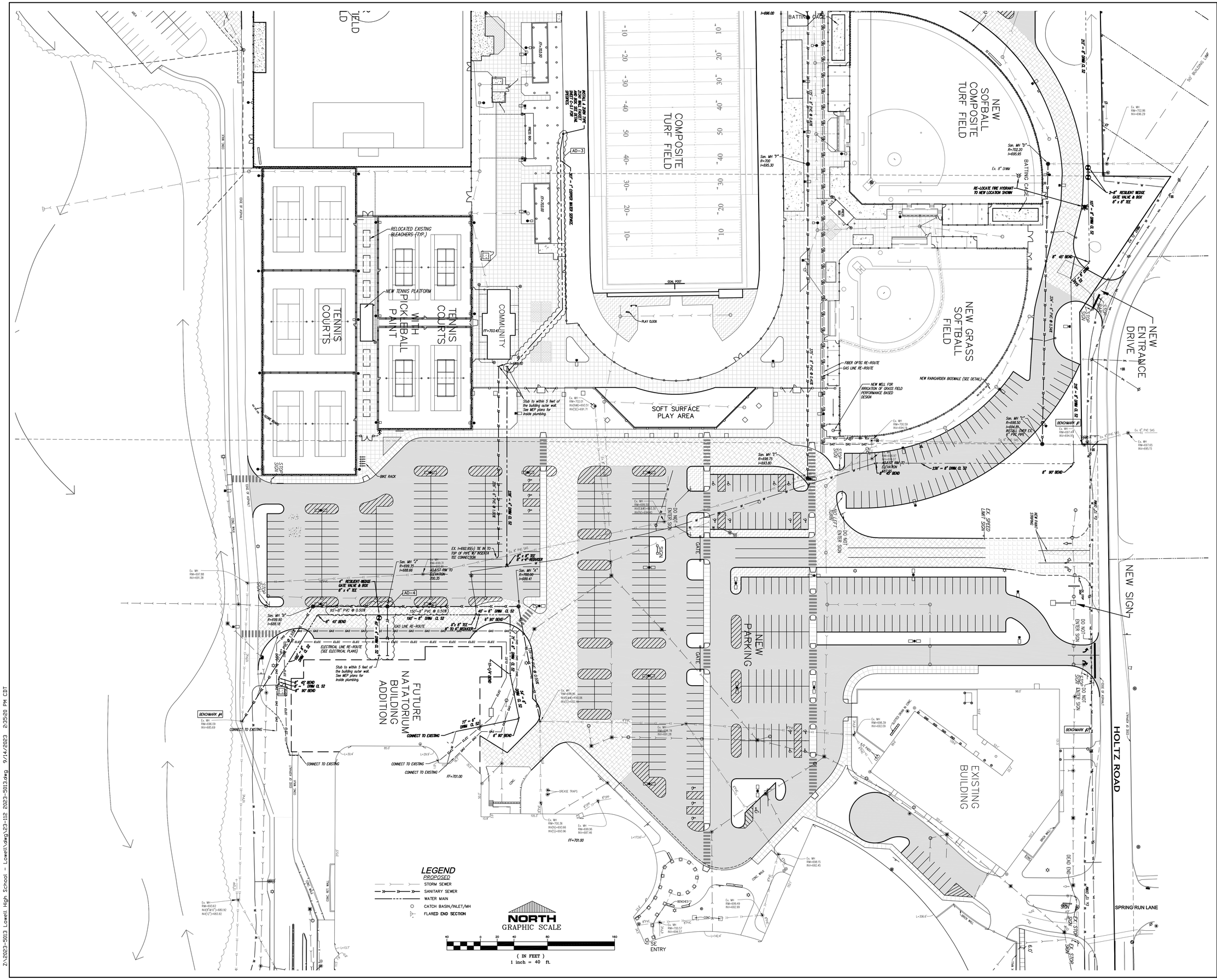
DRAWING
STORM SEWERS AND GRADING PLAN - NORTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-3.3



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PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

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AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
SANITARY SEWERS AND WATER MAIN PLAN - SOUTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET C-4.1

FLOOD ZONE "X (UNSHADED)"
FLOOD ZONE "A"
FLOOD ZONE "X"
FLOOD ZONE "A"
FLOOD ZONE "X (UNSHADED)"
FLOOD ZONE "A"
FLOOD ZONE "X (UNSHADED)"
FLOOD ZONE "A"
FLOOD ZONE "X (UNSHADED)"

REMOVE TREES UP TO PROPOSED CONTOUR 703
RE-GRADE TO ELEVATION 703

REMOVE TREES UP TO PROPOSED CONTOUR 703
RE-GRADE TO ELEVATION 703

ASPHALT TRAIL

703

702

CONC

NEW GRASS BASEBALL FIELD

NEW BASEBALL COMPOSITE TURF FIELD

BATTING CAGE

BATTING CAGE

BULLPEN

BULLPEN

DUGOUT

SUNKEN DUGOUT

GRANDSTANDS & BLEACHERS

BLEACHERS

DUGOUT

BULLPEN

SUNKEN DUGOUT

BULLPEN

SHOT PUT & DISCUS AREA

MAINTENANCE STORAGE BUILDING

EXISTING PARKING

ASPHALT PARKING AREA

SEE SPECIFICATIONS

SOCCER PRACTICE FIELD TURF FIELD

NORTHSTAR CONCESSION AND LOCKER ROOM

FF=704.00

ROOF OVERHANG

NEW ATHLETIC EVENT PARKING

NEW SOFBALL COMPOSITE TURF FIELD

COMPOSITE TURF FIELD

PLAY CLOCK

GOAL POST

BATTING CAGE

LOT 18
LOT 19
LOT 20
LOT 21
LOT 22
LOT 23
LOT 24

Sawcut

Sawcut

Sawcut

Sawcut

Ex. MH
RIM=702.86
INV=696.29

Ex. MH
RIM=703.67
INV=699.17

Ex. MH
RIM=702.74
INV(NW)=698.64
INV(SE)=696.84

Ex. MH
RIM=703.25
INV=699.75

San. MH "7"
Rx=704.25
I=697.26

San. MH "6"
Rx=704.05
I=697.84

San. MH "7"
Rx=701.90
I=696.00

San. MH "7"
Rx=700

San. MH "7"
Rx=702.20
I=695.95

AD-1 AD-3 AD-4

8" x 8" REDUCER
8"-11.25° BEND
8"x8" TEE

6" 22.5° BEND

8"x8" TEE

62' - 8" DIAM CL 52

104' - 8" DIAM CL 52

8" to 4" REDUCER

178' - 8" DIAM CL 52

78' - 8" DIAM CL 52

283' - 8" DIAM CL 52

211' - 8" DIAM CL 52

235' - 8" DIAM CL 52

225' - 8" DIAM CL 52

20'-6" PVC @ 0.65%

30' - 4" FIRE SERVICE LINE DIAM CL 52

30' - 4" DOMESTIC SERVICE LINE DIAM CL 52

20'-6" PVC @ 0.61%

ADJUST RIM TO ELEV=703.75±

Ex. 8" PVC @ 0.61%

12" - 8" PVC @ 0.61%

8" 90° BEND

8" 90° BEND

8" 90° BEND

8" 45° BEND

8"-45° BEND
40' - 6" DIAM CL 52

6" RESILIENT WEDGE GATE VALVE & BOX
6"-11.25° BEND

10' - 6" DIAM CL 52

90' - 1" COPPER WATER SERVICE.

INSTALL A ZURN TYPE Z1341 WALL FAUCET AND BOX. SEE DETAIL SHEET C-5.1 FOR SPECIFICS.

INSTALL ZURN TYPE Z1341 WALL FAUCET AND BOX. SEE DETAIL SHEET C-5.1 FOR SPECIFICS.

PRESS BOX

SCREEN

SCREEN

TYP.

NORTH
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

LEGEND
PROPOSED
STORM SEWER
SANITARY SEWER
WATER MAIN
CATCH BASIN/INLET/MH
FLARED END SECTION

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PROJECT
23-112
DATE
08/04/23
COORDINATED BY
DCT/AM
DRAWN BY
EM
CHECKED BY
DCT/AM

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

REVISIONS

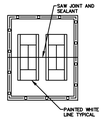
MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 1
AD-3	09/07/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
SANITARY SEWERS AND WATER MAIN PLAN - NORTH

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

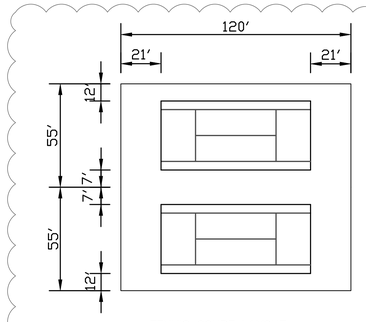
SHEET
C-4.2

Z:\2023-5013 Lowell High School - Lowell\dwg\23-112 2023-5013.dwg 9/14/2023 2:35:20 PM CDT



TENNIS COURT SAW JOINT LAYOUT DETAILS
NOT TO SCALE

AD-4
AD-3



TENNIS COURT LAYOUT
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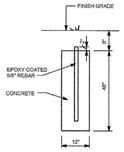
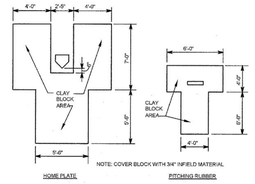
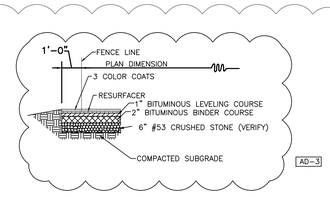


BURIED FIELD CORNER MARKER
NOT TO SCALE



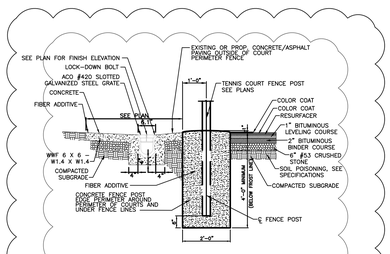
HOME PLATE
NOT TO SCALE



TENNIS COURT PAVING
NOT TO SCALE

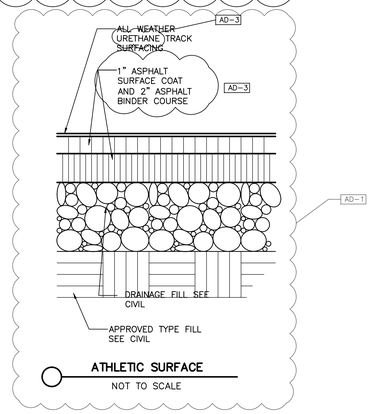
NOTE: NO SLAG OR FERROUS MATERIAL SHALL BE ALLOWED IN THE ASPHALT MIXTURE FOR THE TENNIS COURTS OR THE RUNNING TRACK SURFACE.

AD-1



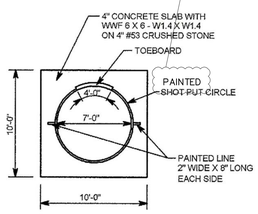
TENNIS COURT/DUGOUT TRENCH DRAIN AND TENNIS COURT FENCE POST FOUNDATION
NO SCALE

AD-1

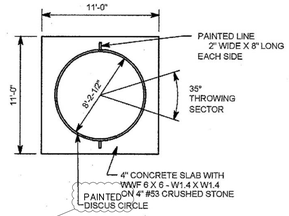


ATHLETIC SURFACE
NOT TO SCALE

AD-1

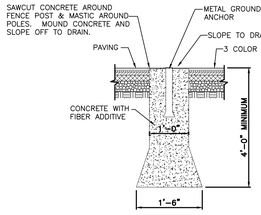


SHOT PUT PAD
NOT TO SCALE

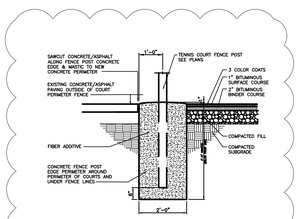


AD-1

DISCUSS THROW PAD
NOT TO SCALE

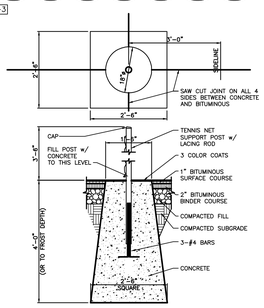


TENNIS NET TIE DOWN
NOT TO SCALE

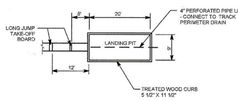


TENNIS COURT FENCE POST FOUNDATION
NOT TO SCALE

AD-1

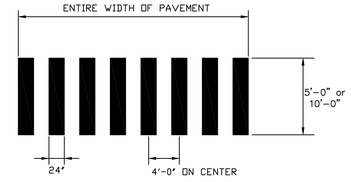


TENNIS NET SUPPORT POST DETAIL
NOT TO SCALE



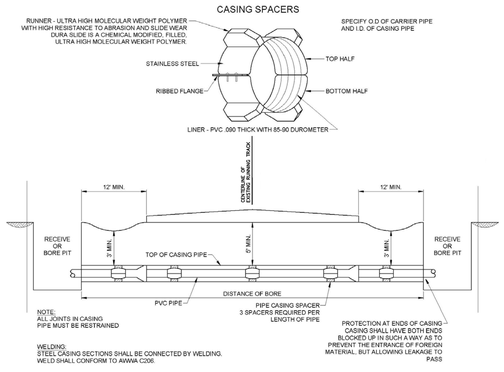
NOTE
1. APPROACH IS ALL WEATHER SURFACED.
2. FILL PIT WITH 12" MINIMUM SAND ON 6" #8 STONE. INSTALL FILTER FABRIC BETWEEN SAND AND STONE. (OPPOSITE END SIMILAR)
3. MEASUREMENTS ARE TO INSIDE FOR LONG JUMP LANDING PIT.

LONG JUMP RUNWAY AND LANDING AREA
NOT TO SCALE



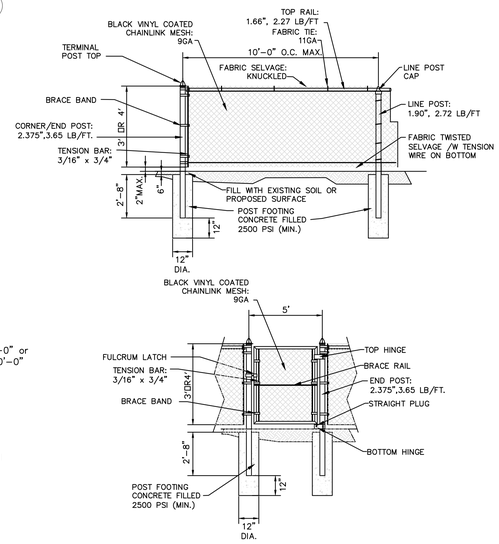
NOTE:
1. ALL REGULATOARY SIGNS SHALL BE HIGH INTENSITY AND IN ACCORDANCE WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MOST RECENT EDITION.
2. ALL PAVEMENT MARKINGS SHALL BE WHITE THERMOPLASTIC AND SPAN ACROSS APPROACH LANES.

CONTINENTAL CROSS WALK DETAIL
NOT TO SCALE

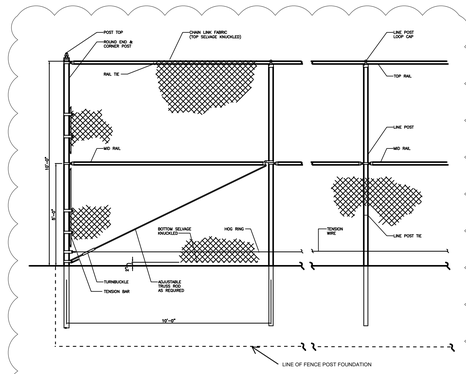


TYPICAL BORING & JACKING CASING PIPE
NOT TO SCALE

NOTE: THE STEEL CASING PIPE SHALL BE SIZED BY THE CONTRACTOR

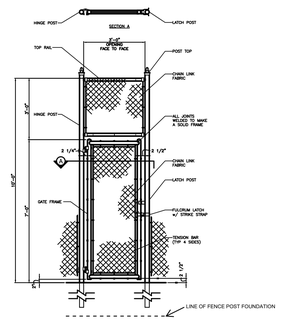


FENCE/GATE DETAIL
NOT TO SCALE

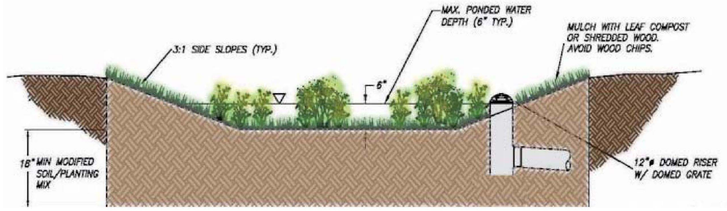


AD-1
AD-4

TENNIS FENCE SECTION/ELEVATION
NOT TO SCALE

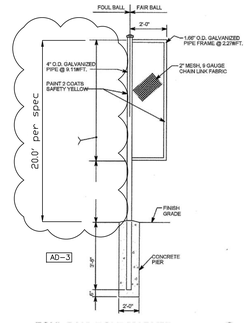


TENNIS GATE ELEVATION
NOT TO SCALE

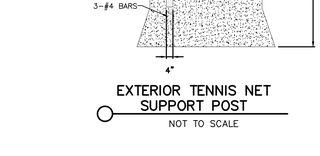


RAIN GARDEN/BIOSWALE DETAIL
NOT TO SCALE

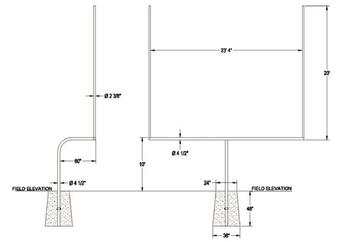
AD-4



FOUL BALL POLE MARKER
NOT TO SCALE

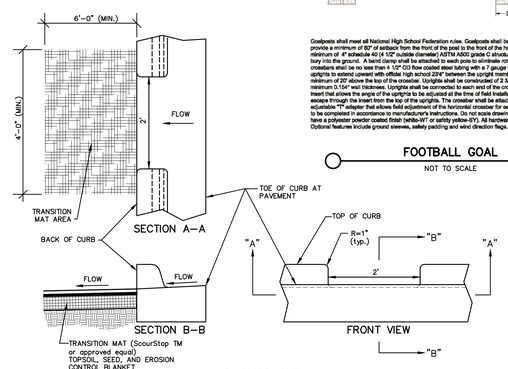


EXTERIOR TENNIS NET SUPPORT POST
NOT TO SCALE



Goalposts shall meet all National High School Federation rules. Goalposts shall be of the single bent post design and provide a minimum of 6'0" of setback from the front of the post to the front of the horizontal crossbar. The bent post shall be a minimum of 4" schedule 40 (4 1/2" outside diameter) ASTM A500 grade C structural pipe and provide for no less than 48" bury into the ground. A band clamp shall be attached to each pole to eliminate rotation in the concrete footing. Horizontal crossbars shall be no less than 4 1/2" OD flow coated steel tubing with a 7 gauge wall thickness and be of a length to allow uprights to extend upward with offside high school 23'4" between the upright members. Two vertical uprights shall rise a minimum of 20' above the top of the crossbar. Uprights shall be constructed of 2 3/8" diameter 6063-T6 aluminum with a minimum 0.154" wall thickness. Uprights shall be connected to each end of the crossbar by means of a machined aluminum insert that allows the angle of the uprights to be adjusted at the time of field installation. The insert design shall allow rain to escape through the insert from the top of the uprights. The crossbar shall be attached to the bent post by means of an aluminum plate. The plate shall be welded to the bent post and shall allow the crossbar to be adjusted at the time of installation to be completed in accordance to manufacturer's instructions. Do not scale drawings. All steel and aluminum members shall have a polyester powder coated finish (white-W7 or safety yellow-SY). All hardware shall be zinc plated grade 5 minimum. Optional features include ground sleeves, safety padding and wind direction flags. Shipping weight approximately 1000#/pair.

FOOTBALL GOAL
NOT TO SCALE



2' CURB CUT
NOT TO SCALE

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PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DCT/AM
DRAWN BY EM
CHECKED BY DCT/AM

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 1
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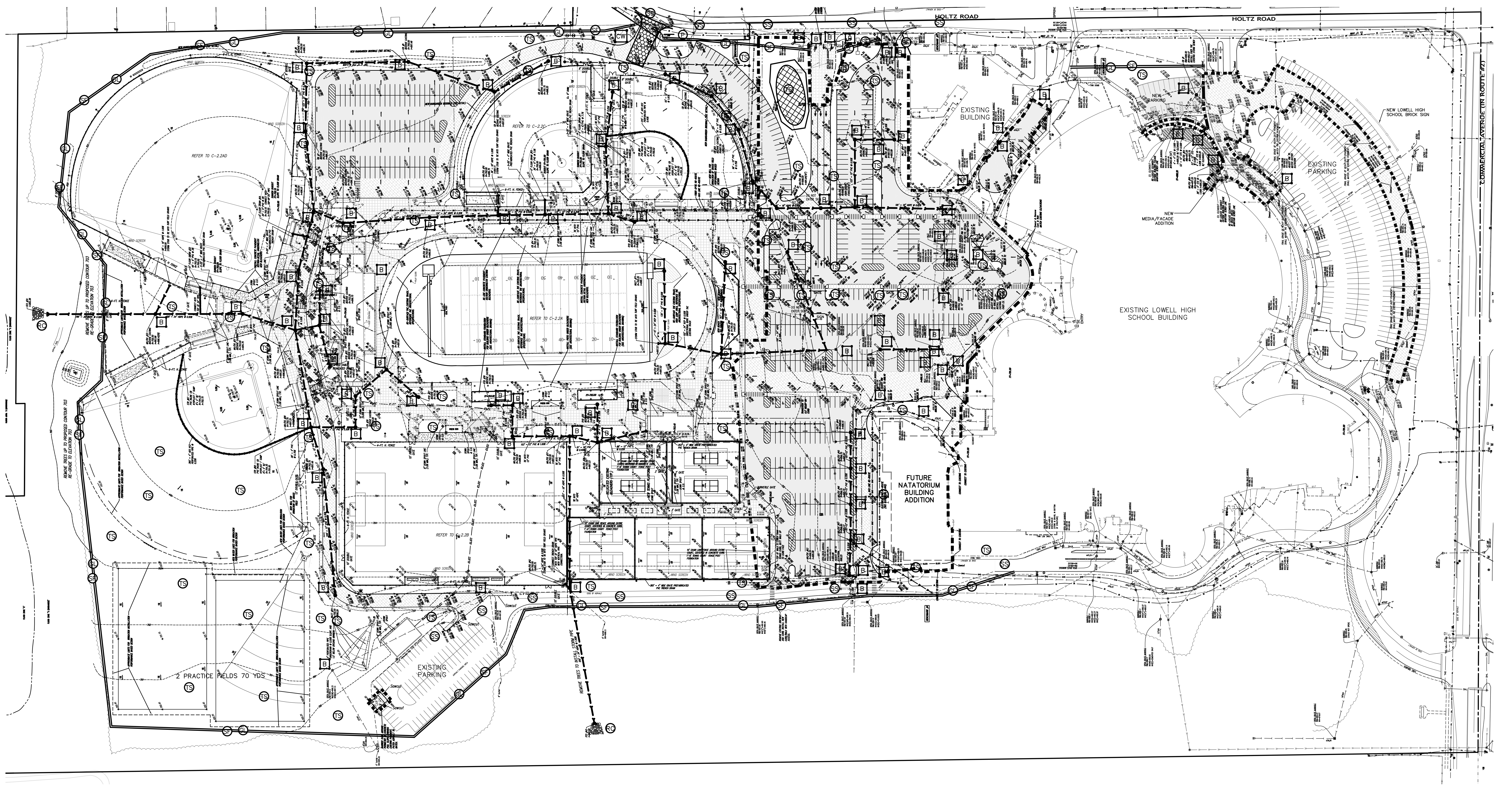
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
DETAILS AND SPECIFCATIONS

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-5.2

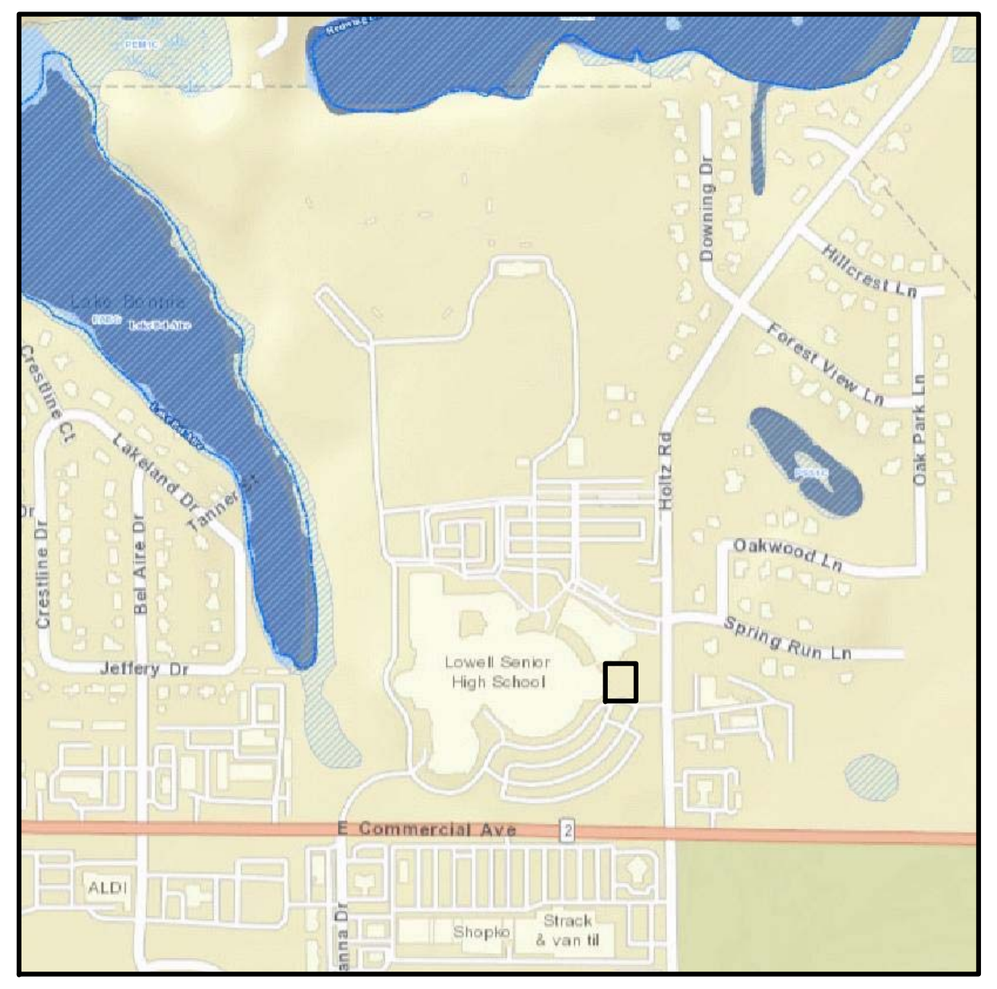
Z:\2023-5013 Lowell High School - Lowell\dwg\2023-5013 Details.dwg 5/25/2023 11:48 PM CDT



VICINITY MAP

NORTH

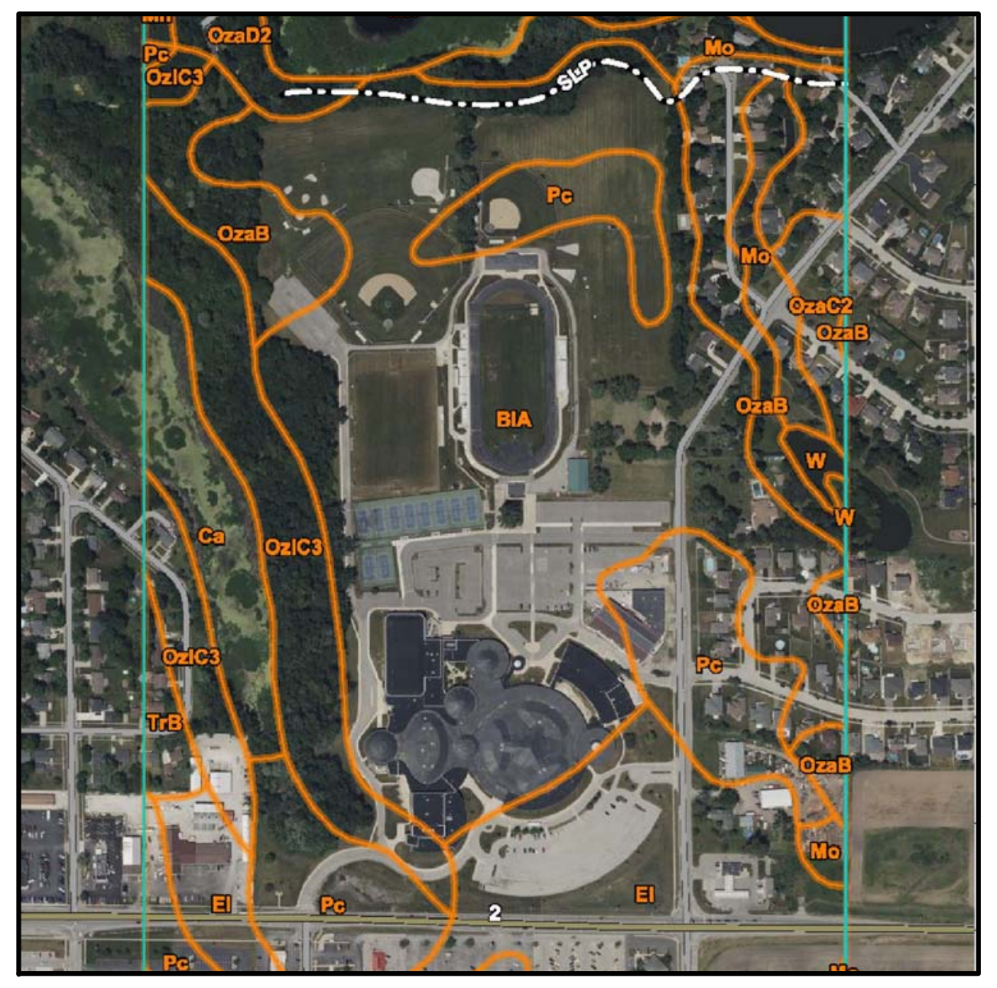
NOT TO SCALE



WETLANDS MAP

NORTH

NOT TO SCALE



SOIL MAP

NORTH

NOT TO SCALE

Soil Type Legend

BlA – Blount silt loam, Lake Michigan Lobe, 0 to 2 percent slopes
El – Elliott silt loam, 0 to 2 percent slopes
OzlC3 – Ozaukee silty clay loam, 6 to 12 percent slopes, severely eroded
OzaB – Ozaukee silt loam, 2 to 6 percent slopes
Pc – Pewamo silty clay loam

GENERAL NOTES:

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE(S) "A" & "X (UNSHADED)" AS DETERMINED BY USING SCALE MEASUREMENT FOR LOCATION UPON THE APPLICABLE FLOOD INSURANCE RATE MAP FOR THE TOWN OF LOWELL AND UNINCORPORATED AREAS , LAKE COUNTY), INDIANA AS SHOWN IN COMMUNITY PANEL(S) 18089C0342E EFFECTIVE JANUARY 18, 2012 . TRACTS OF LAND LOCATED IN FLOOD ZONE "A" ARE IN A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100 YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVE YEAR. THIS SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD. IN A FLOOD ZONE "A", THE BASE FLOOD ELEVATIONS HAVE NOT BEEN DETERMINED. TRACTS OF LAND LOCATED IN FLOOD ZONE X (UNSHADED) ARE AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD HAZARD.
2. HYDROLOGIC UNIT CODE (HUC) – 07120001130040 SPRING RUN
3. AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) IS REQUIRED.
4. AT PRESENT THE SITE IS AN EXISTING SCHOOL WITH SURROUNDING PARKING AREAS, PONDS AND SPORTS FIELDS.
5. THERE IS PRESENCE OF HYDRIC SOILS ON THIS PROPERTY, (PC) PEWAMO SILTY CLAY LOAM.
6. THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY BUT DO EXIST ON ADJACENT PROPERTY AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, AND THE UNITED STATES DEPARTMENT OF THE INTERIOR. THERE ARE NO LAKES OR WATER COURSES BUT A DETENTION POND DOES EXIST ON THIS PROPERTY. SPRING RUN IS THE WATER COURSE WHICH THE STORMWATER FROM THE REST OF THE PROPOSED SITE WILL ULTIMATELY DISCHARGE INTO; A TRIBUTARY IS LOCATED ON THE PROJECT SITE.
7. POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.
8. THERE ARE NO SENSITIVE AREAS ASSOCIATED WITH THIS PROPERTY.
9. THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.
10. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE LOCATED WITHIN THE PROJECT SITE. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCING AT ALL TIMES TO PREVENT EXCESSIVE EROSION, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, IT SHALL BE TEMPORARY SEEDED WITHIN 14 DAYS. UPON SITE COMPLETION THE TOPSOIL STOCKPILE SHALL BE RESPREAD, GRADED, AND PERMANENTLY SEEDED. SOIL STOCKPILES SHALL NOT BE LEFT ON THE SITE FOR GREATER THAN 6 MONTHS AFTER CONSTRUCTION IS COMPLETED. NO SOIL FROM THE STOCKPILES SHALL BE REMOVED FROM THE SITE. ALL EXTRA STOCKPILE MATERIAL SHALL BE RESPREAD IN AREAS DESIGNATED BY THE CONSTRUCTION MANAGER.
11. AREAS WHERE THE PROPOSED ATHLETIC FIELDS, BUILDING, AND SIDEWALKS AS WELL AS AREAS WHERE PROPOSED UTILITIES ARE LOCATED WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.
12. FUEL STORAGE AREA IF REQUIRED SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATED AWAY FROM DRAINAGE STRUCTURES AND CHANNELS. FIRE EXTINGUISHERS SHALL BE LOCATED NEAR FUEL STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED IN GOOD CONDITION.
13. TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE 4:1 OR GREATER) THAT WILL REMAIN UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, WITHIN 14 DAYS. SEEDING: OPTIMUM SEEDING DATED ARE MARCH 1 – MAY 10 AND AUGUST 10 – SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA STORM WATER QUALITY MANUAL.
14. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINAGE SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR SEVEN (7) CALENDAR DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON WITHIN FOURTEEN (14) DAYS.
15. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83.

NOTES:
1. FOR POST-CONSTRUCTION STORM WATER POLLUTION PREVENTION, TEMPORARY SEEDING LOCATIONS SHALL BE PERMANANTLY SEEDED.

SWPPP LEGEND:

▨	– TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)
▨	– SOIL STOCK PILE
B	– BASKET INSERT INLET PROTECTION
GL	– GRADE LIMITS
SF	– SILT FENCE
CW	– CONCRETE WASH OUT AREA
TS	– TEMPORARY SEEDING
SS	– STREET SWEEPING
XXX.XX	– GRADES (PROPOSED)
RC	– ROCK CHUTE
P	– POSTING CSGP NOI & NOS LETTERS AND LOCAL SWPPP PERMIT

NORTH

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

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DONALD C. TORRENGA
No. 19868

Donald C. Torrenga

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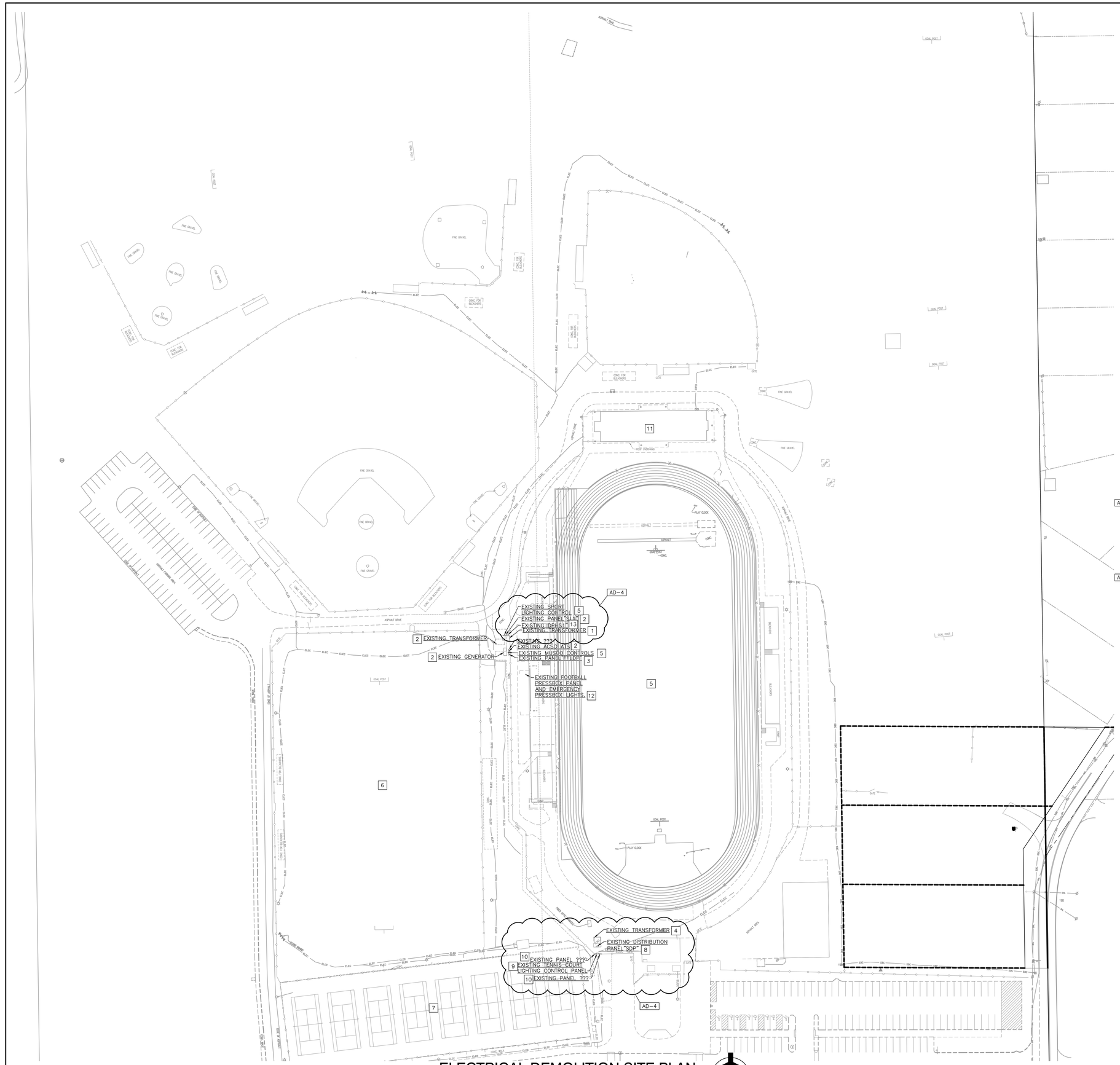
MARK	DATE	ISSUED FOR
AD-3	09/07/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
STORM WATER POLLUTION PREVENTION PLAN

PROJECT
LOWELL HIGH SCHOOL SITE BLEACHERS, & TURF/DRAINAGE

SHEET
C-6.0



ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 50'-0"

GENERAL NOTES:

1. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
2. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
3. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

DEMOLITION PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. EXISTING PAD MOUNTED TRANSFORMER #4, FOOTBALL FIELD LIGHTING PANEL "FFLDP", ELECTRICAL EQUIPMENT SHALL REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING EMERGENCY GENERATOR, AUTOMATIC TRANSFER SWITCH AND PANELS SHALL REMAIN, UNLESS OTHERWISE NOTED.
3. REPLACE EXISTING FOOTBALL FIELD PANEL "FFLDP" WITH NEW PANEL "FFLDP".
4. EXISTING PAD MOUNTED TRANSFORMER #3 SHALL BE RELOCATED. SEE SITE PLAN SHEETS ES100 AND ES102. SEE SITE PLAN SHEETS ES100 AND ES102 FOR ADDITIONAL INFORMATION AND FEEDER MODIFICATION INFORMATION.
5. REMOVE EXISTING FOOTBALL FIELD LIGHTING FIXTURES, CROSS ARMS, ETC. AND REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED. EXISTING EMERGENCY LIGHTING FIXTURES, CIRCUITING, ETC. SHALL REMAIN. PREPARE EXISTING FOOTBALL FIELD LIGHTING POLES FOR NEW LIGHTING FIXTURES, CROSS ARMS, CIRCUITING, CONTROLS, ETC. IN ADDITION, REMOVE EXISTING FOOTBALL FIELD LIGHTING CONTROLS AND ALL ASSOCIATED CONDUIT AND WIRE, UNLESS OTHERWISE NOTED.
6. RELOCATE EXISTING SOCCER FIELD LIGHTING POLES AND PREPARE FOR NEW LIGHTING FIXTURES, CROSSARMS, WIRING, ETC. SEE SHEET ES106 FOR NEW LOCATIONS, CIRCUITING AND CONTROLS. REMOVE SOCCER FIELD LIGHTING FIXTURES, CROSSARMS, WIRING, POLE BASES AND CONTROLS. REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
7. RELOCATE EXISTING TENNIS COURT LIGHTING POLES AND PREPARE FOR NEW LIGHTING FIXTURES, CROSSARMS, WIRING, ETC. SEE SHEET ES107 FOR NEW LOCATIONS, CIRCUITING AND CONTROLS. REMOVE TENNIS COURT LIGHTING POLE BASES AND CONTROLS. REMOVE ASSOCIATED FEEDERS BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
8. REMOVE EXISTING DISTRIBUTION PANELBOARD "SDP" AND ASSOCIATED FEEDER FROM EXISTING PAD MOUNTED TRANSFORMER #3. REMOVE EXISTING BRANCH CIRCUIT FEEDERS, INCLUDING FEEDER TO THE EXISTING RED BARN BEING REMOVED. INTERCEPT ANY EXISTING FEEDER SERVING EXISTING EQUIPMENT THAT MAY REMAIN AND EXTEND TO NEW PANEL "SDP".
9. REMOVE TENNIS COURT LIGHTING CONTROLS AND REMOVE ALL ASSOCIATED WIRING.
10. REMOVE EXISTING PANELBOARDS AND SMALL TRANSFORMERS AND REMOVE ASSOCIATED CONDUIT AND WIRE. (AD-4)
11. REMOVE EXISTING FEEDER TO THE EXISTING INCOMING ELECTRICAL SERVICE PANELBOARD IN THE NORTH STAR BUILDING, UNLESS OTHERWISE NOTED.
12. DISCONNECT ELECTRICAL SERVICE TO THE EXISTING FOOTBALL FIELD PRESSBOX BEING REMOVED AND REMOVE EXISTING FEEDER BACK TO THE SOURCE. INTERCEPT EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THE EXISTING FOOTBALL FIELD PRESSBOX AND EXTEND TO THE NEW FOOTBALL FIELD PRESSBOX.
13. REPLACE EXISTING PANEL "DPHS1" WITH NEW PANEL"DPHS1". INTERCEPT EXISTING CIRCUITS SERVING EXISTING EQUIPMENT THAT REMAIN AND EXTEND TO NEW PANEL "DPHS1". (AD-4)

GIBRALTAR DESIGN
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL DEMOLITION SITE PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES101

Thursday, 9/14/2023 - 12:24 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES101.DWG

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
4. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

(1) PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNELS SUPPORT FOR THE ELECTRICAL EQUIPMENT SHOWN. VERIFY EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.

SEE SHEET ES104 FOR ENLARGED PLAN OF BASEBALL FIELD AREA

PANELS "BBH1" AND "BBL1", LIGHTING RELAYS, TIMECLOCK AND XFMR FOR PRESS BOX AND BASEBALL FIELD LIGHTING AND PARKING LOT LIGHTING

FEEDER FOR PANEL "BBH1" - SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

PULL BOX FOR FEEDER TO PANEL "TBL3"

FEEDER FOR MAIN DISCONNECT FOR MAINTENANCE STORAGE BUILDING - SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

AD-4

NEW MAIN DISTRIBUTION PANEL "NSMDP")

PULL BOX FOR FEEDER TO NORTH STAR BUILDING

FEEDER FOR NEW MAIN DISTRIBUTION PANEL "NSMDP" - SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

PANEL "TBL3"

SEE SHEET ES110 FOR NEW PARKING LOT LIGHTING

AD-4

MAIN DISCONNECT, PANEL "MSL1" AND XFMR FOR MAINTENANCE STORAGE BUILDING

SEE SHEET ES106 FOR ENLARGED PLAN OF SOCCER FIELD AREA

PANELS "SFH1" AND "SFL1" AND XFMR FOR PRESS BOX AND SOCCER FIELD LIGHTING

FEEDER FOR PANEL "SFH1" - SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

AD-4

EXISTING SPORT LIGHTING CONTROL

EXISTING PANEL "SL1"

NEW PANEL "DPHS1"

EXISTING TRANSFORMER

EXISTING TRANSFORMER #4

EXISTING ???

EXISTING ACSO ATS

EXISTING MUSCO CONTROLS

NEW PANEL "FLDP"

EXISTING GENERATOR

SEE SHEET ES103 FOR ENLARGED PLAN OF FOOTBALL FIELD AREA

FEEDER FOR PANEL "FLDP" - SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER SIZES

SEE SHEET ES105 FOR ENLARGED PLAN OF SOFTBALL FIELD AREA

PULL BOX FOR FEEDER TO PANEL "TCH1"

RELOCATED TRANSFORMER #3

NEW PANEL "SDP"

PANELS "SBH1" AND "SBL1" AND XFMR FOR PRESS BOX AND SOFTBALL FIELD LIGHTING

FEEDER TO PANEL "SBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

FEEDER TO PANEL "CBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

PANELS "CBH1" AND "CBL1" AND TRANSFORMER.

PANELS "TCH1" AND "TCL1" AND XFMR FOR TENNIS COURT PLATFORM AND TENNIS COURT LIGHTING

SEE SHEET ES107 FOR ENLARGED PLAN OF TENNIS COURT AREA

PANELS "SLH1", SITE LIGHTING RELAYS AND TIMECLOCKS

PULL BOX FOR FEEDER TO PANELS "TBL1"/"TBL2"

PANEL "TBL1"

PANEL "TBL1"

PULL BOX FOR FEEDER TO PANEL "SBH1"

FEEDER TO PANEL "SBH1" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

FEEDER TO PANEL "TBL2" SEE POWER DISTRIBUTION DIAGRAM FOR FEEDER INFORMATION

PULL BOX FOR FEEDER TO PANEL "SBH1"

LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24

ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

NORTH

AD-4

NEW PANEL "SDP"

(1)

ENLARGED PLAN OF ELECTRICAL EQUIPMENT NEAR RELOCATED TRANSFORMER #3

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

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

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

REVISIONS

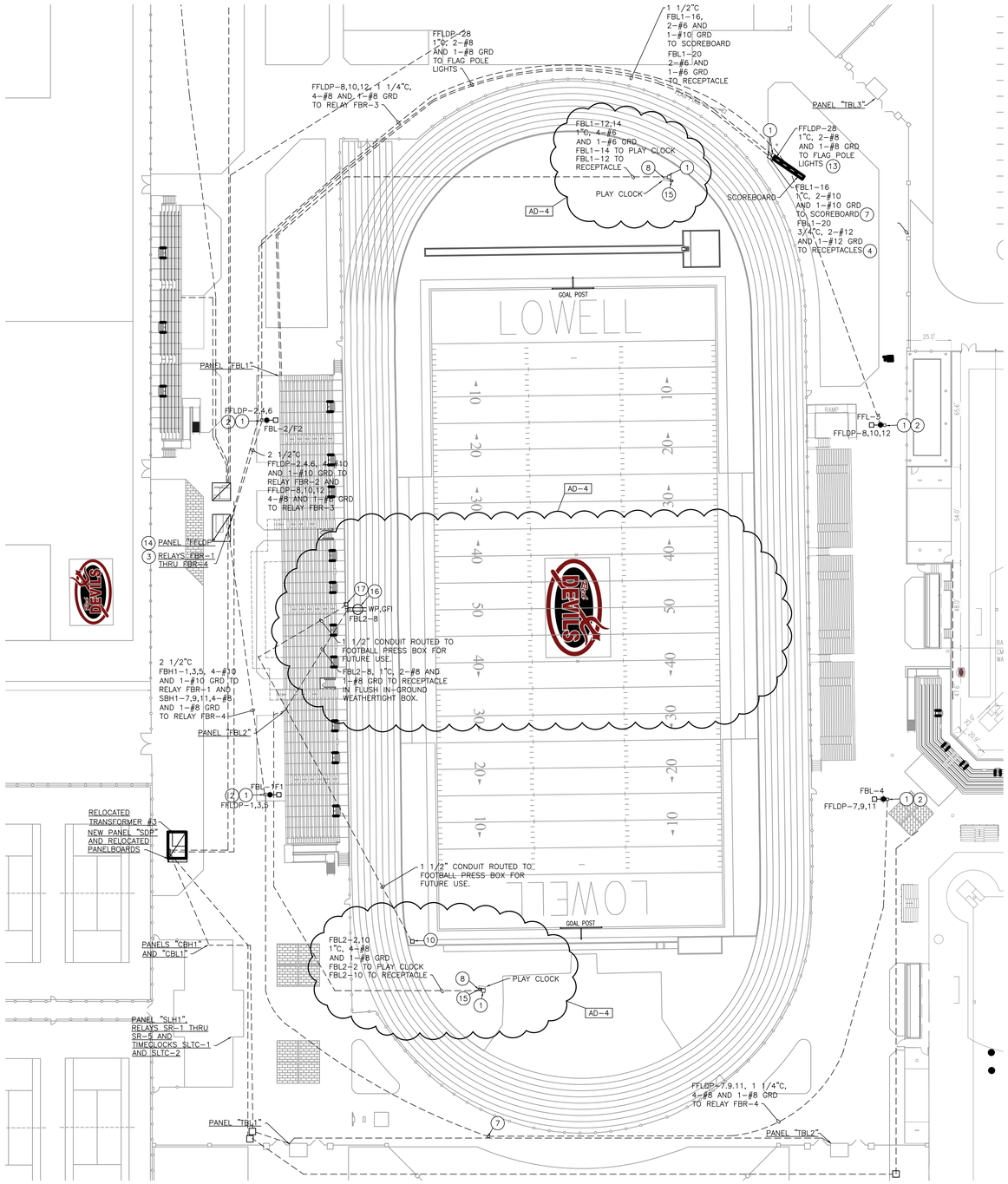
MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL SITE PLAN

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES102

Thursday, 9/14/2023 - 1:01 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES102.DWG



ENLARGED ELECTRICAL PLAN OF FOOTBALL FIELD

SCALE: 1" = 30'-0"

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
3. COORDINATE WITH DUKE ENERGY AND ALL FEES AND OTHER COSTS NOT BORNE BY THE POWER COMPANY TO PROVIDE ADDITIONAL WORK THAT IS NOT SHOWN ON THE DRAWINGS OR ADDRESSED IN THE SPECIFICATIONS TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICES NOTED WILL BE COVERED AN ALLOWANCE.
4. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
5. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
6. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
7. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
8. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. FLUSH IN-GROUND JUNCTION BOX.
2. EXISTING FOOTBALL LIGHTING POLE AND EXISTING EMERGENCY LIGHTING FIXTURES SHALL REMAIN. MODIFY EXISTING FOOTBALL LIGHTING POLE AS NECESSARY TO PROVIDE THE NEW FOOTBALL FIELD LIGHTS, CROSSARMS, WIRING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL LIGHTING SYSTEM. CONNECT NEW FOOTBALL LIGHTS TO THE NEW FOOTBALL FIELD LIGHTING CONTROLS WITH THE NEW CIRCUITS INDICATED.
3. REMOVE THE EXISTING CONTROLS AND ALL ASSOCIATED WIRING. PROVIDE NEW FOOTBALL FIELD LIGHTING CONTROLS AS SHOWN.
4. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.
5. FLUSH IN-GROUND PULL BOX.
6. PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE SCOREBOARD CONNECT IT TO THE SCOREBOARD AND CIRCUIT INDICATED (FBL1-6) VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND SCOREBOARD INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR SCOREBOARD.
7. PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE GAME CLOCK AND CONNECT TO CIRCUIT INDICATED (FBL1-6). VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND DELAY-OF-GAME TIMER INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR DELAY-OF-GAME TIMER.
8. PROVIDE A 1P-30 AMP NEMA 3R DISCONNECT FOR THE GAME CLOCK AND CONNECT TO CIRCUIT INDICATED (FBL2-6). VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND DELAY-OF-GAME TIMER INSTALLER/ SUPPLIER PRIOR TO ROUGHING IN OR PROVIDING ANY CONDUITS AND WIRES. PROVIDE A GROUND ROD AND THE APPROPRIATE GROUNDING FOR DELAY-OF-GAME TIMER.
9. PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNEL SUPPORTS AND CONCRETE PAD FOR THE NEW PANELBOARDS, DISCONNECTS AND TRANSFORMERS LOCATED NEAR THE FOOTBALL FIELD BLEACHERS. VERIFY EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGHING-IN.
10. PROVIDE A FLUSH IN-GROUND BOX FOR POWER, COMMUNICATIONS AND TECHNOLOGY DEVICES AND EQUIPMENT. SEE DETAIL ON SHEET E-501.
11. PROVIDE A DUPLEX POWER RECEPTACLE IN THE FLUSH IN-GROUND WEATHERTIGHT BOX.
12. PROVIDE A 1 1/2" CONDUIT AND A 1" CONDUIT ROUTED FROM THE IN-GROUND WEATHERTIGHT BOX TO THE FOOTBALL PRESS BOX FOR FUTURE USE.
13. TYPE SL-1 LIGHTING FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.
14. REPLACE EXISTING PANEL "FFLDP" WITH NEW PANEL "FFLDP" WITH NEW PANEL "FFLDP". INTERCEPT EXISTING CIRCUITS SERVING EQUIPMENT THAT REMAIN AND EXTEND TO NEW PANEL "FFLDP".
15. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE PLAY CLOCK AND CONNECT TO CIRCUIT INDICATED. (AD-4)
16. PROVIDE A WEATHERPROOF GFI RECEPTACLE FLUSH IN THE WALL AND CONNECT TO CIRCUIT INDICATED. VERIFY EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN. (AD-4)
17. PROVIDE A WEATHERPROOF ENCLOSURE FOR A DATA OUTLET FLUSH IN THE WALL WITH A CONDUIT ROUTED UP TO THE PRESSBOX AS SHOWN. VERIFY EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

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

REVISIONS

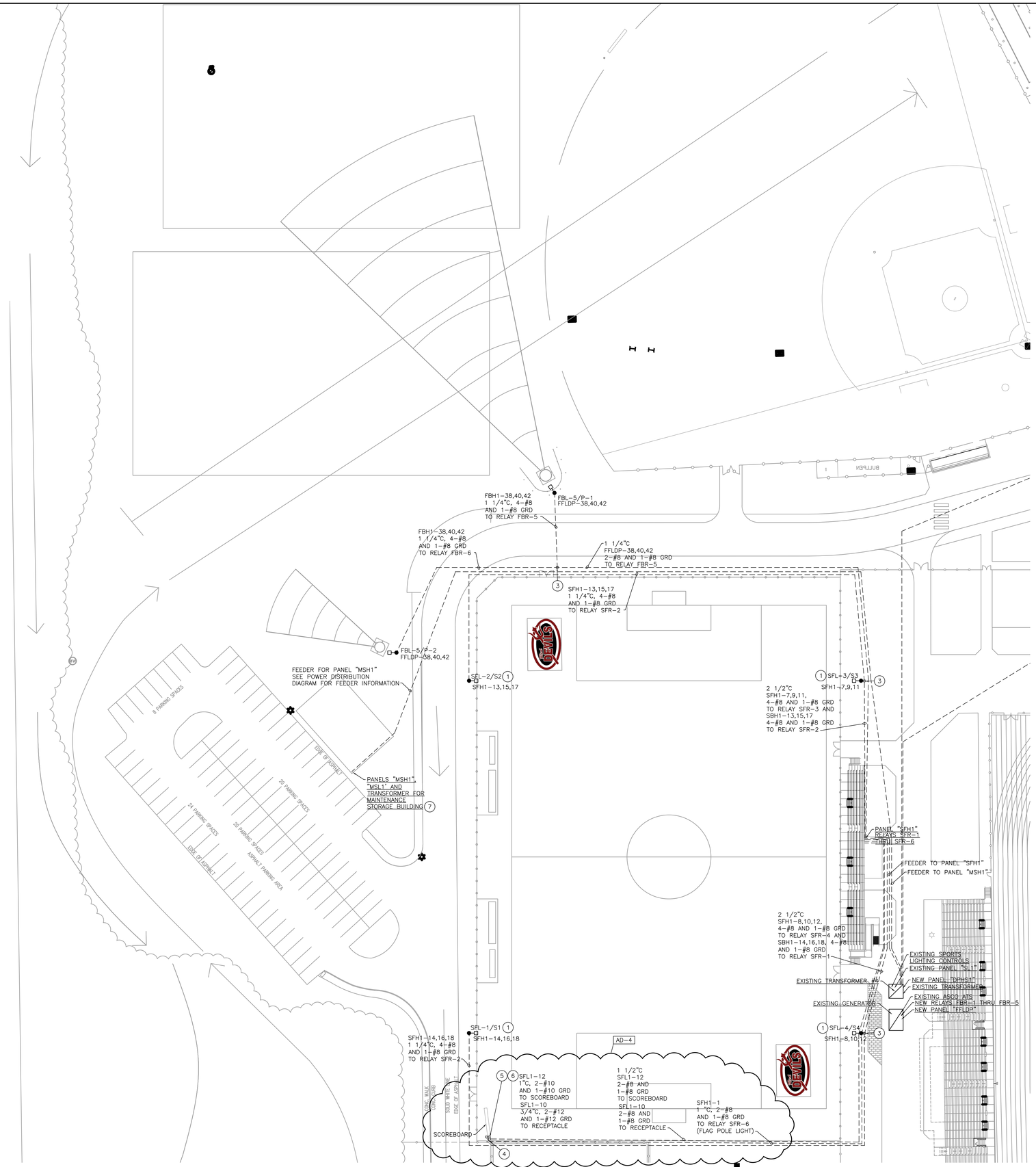
MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ENLARGED ELECTRICAL PLAN OF FOOTBALL FIELD

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES103

Friday, 9/15/2023 - 1:25 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES103.DWG



ENLARGED ELECTRICAL PLAN OF SOCCER FIELD

SCALE: 1" = 30'-0"

SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
3. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
4. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
5. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
6. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
7. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH SPORTS LIGHTING CONTRACTOR, CONSTRUCTION MANAGER AND ALL UNDERGROUND UTILITIES PRIOR TO ROUGHING-IN. SEE CIVIL DRAWINGS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. RELOCATED SOCCER FIELD LIGHTING POLE WITH NEW LIGHTING FIXTURES, CROSS ARMS, WIRING AND POLES. PROVIDE NEW CONCRETE BASES FOR THE RELOCATED SOCCER FIELD LIGHTING POLES. CONNECT NEW LIGHTING FIXTURES TO NEW CIRCUITS AND CONTROLS AS SHOWN.
2. PROVIDE NEW PANELS "SFH1" AND "SFL1", TRANSFORMER AND SOCCER FIELD LIGHTING CONTROL RELAY CABINET "SFRC1".
3. FLUSH IN-GROUND JUNCTION BOX.
4. TYPE SL-1 LIGHTIG FIXTURE MOUNTED ON TOP OF SCOREBOARD FRAME TO ILLUMINATE THE FLAG.
5. PROVIDE A 3P-30 AMP WEATHERPROOF DISCONNECT AND CONNECT CIRCUIT INDICATED TO THE SCOREBOARD.
6. PROVIDE A GFI TYPE DUPLEX RECEPTACLE WITH "WEATHERPROOF-IN-USE" COVER AT THE BASE OF THE FOOTBALL SCOREBOARD AND CONNECT TO CIRCUIT INDICATED.
7. VERIFY EXACT LOCATION WITH THE ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB JVC
CHECKED BY JPB

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ENLARGED ELECTRICAL PLAN OF SOCCER FIELD

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES106

Thursday, 9/14/2023 - 1:34 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES106.DWG

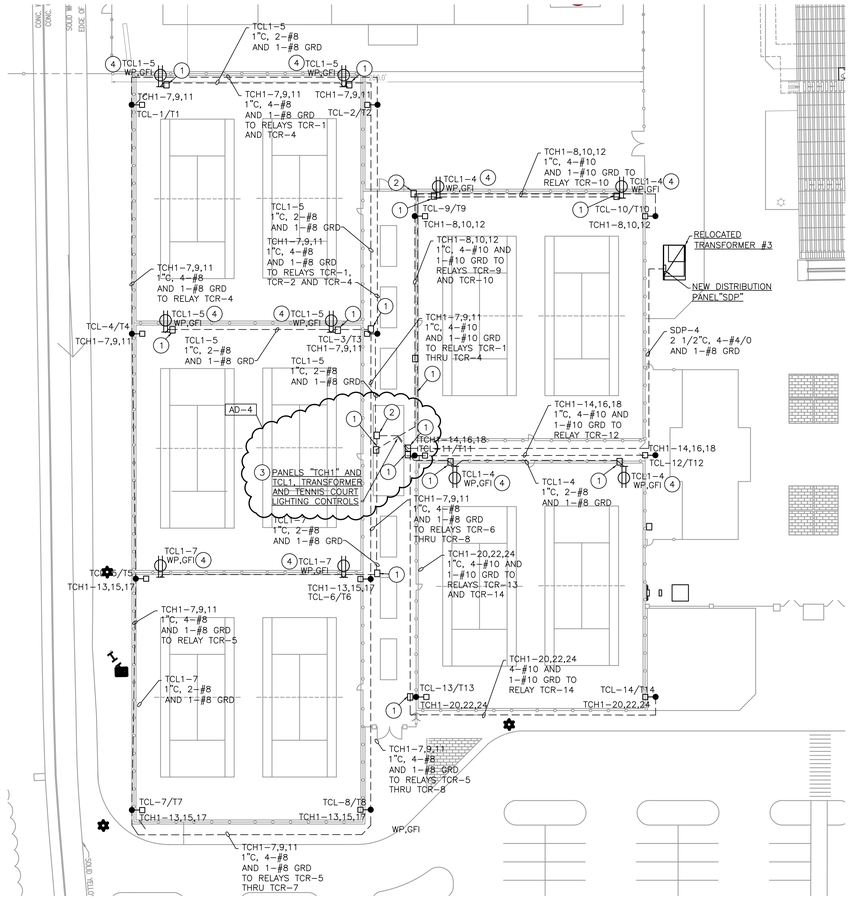
SITE PLAN NOTES - GENERAL

1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE INDICATED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
3. COORDINATE WITH DUKE ENERGY AND ALL FEES AND OTHER COSTS NOT BORNE BY THE POWER COMPANY TO PROVIDE ADDITIONAL WORK THAT IS NOT SHOWN ON THE DRAWINGS OR ADDRESSED IN THE SPECIFICATIONS TO PROVIDE THE NEW INCOMING PRIMARY ELECTRICAL SERVICES NOTED WILL BE COVERED AN ALLOWANCE.
4. COORDINATE LOCATIONS OF UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES WITH OTHER SITE UTILITIES, UNDERGROUND DRAINS, SERVICES, STRUCTURES AND FINAL GRADING.
5. NOT ALL UTILITIES HAVE BEEN SHOWN. VERIFY LOCATIONS AND ROUTING OF ALL NEW AND EXISTING UTILITIES PRIOR TO ANY NEW WORK.
6. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
7. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
8. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
9. COORDINATE EXACT SPORT LIGHTING POLE LOCATIONS WITH ARCHITECT AND UNDERGROUND UTILITIES. SEE CIVIL DRAWINGS.

ELECTRICAL SITE PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. FLUSH IN-GROUND JUNCTION BOX.
2. FLUSH IN-GROUND PULL BOX.
3. PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNEL SUPPORTS FOR THE ELECTRICAL PANELS, DISCONNECTS, TRNASFORMERS, LIGHTING RELAY PANELS, TIMECLOCKS, ETC. AD-4
4. VERIFY EXACT LOCATION OF RECEPTACLES FOR THE BALL MACHINES WITH THE OWNER AND CONSTRUCTION MANAGER PRIOR TO ROUGHING-IN.



ENLARGED ELECTRICAL PLAN OF TENNIS COURTS

SCALE: 1" = 30'-0"

NORTH

GIBRALTAR DESIGN
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

PROJECT
23-112
DATE
08/04/23
COORDINATED BY
PCB
DRAWN BY
PCB JVC
CHECKED BY
JPB

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

REVISIONS

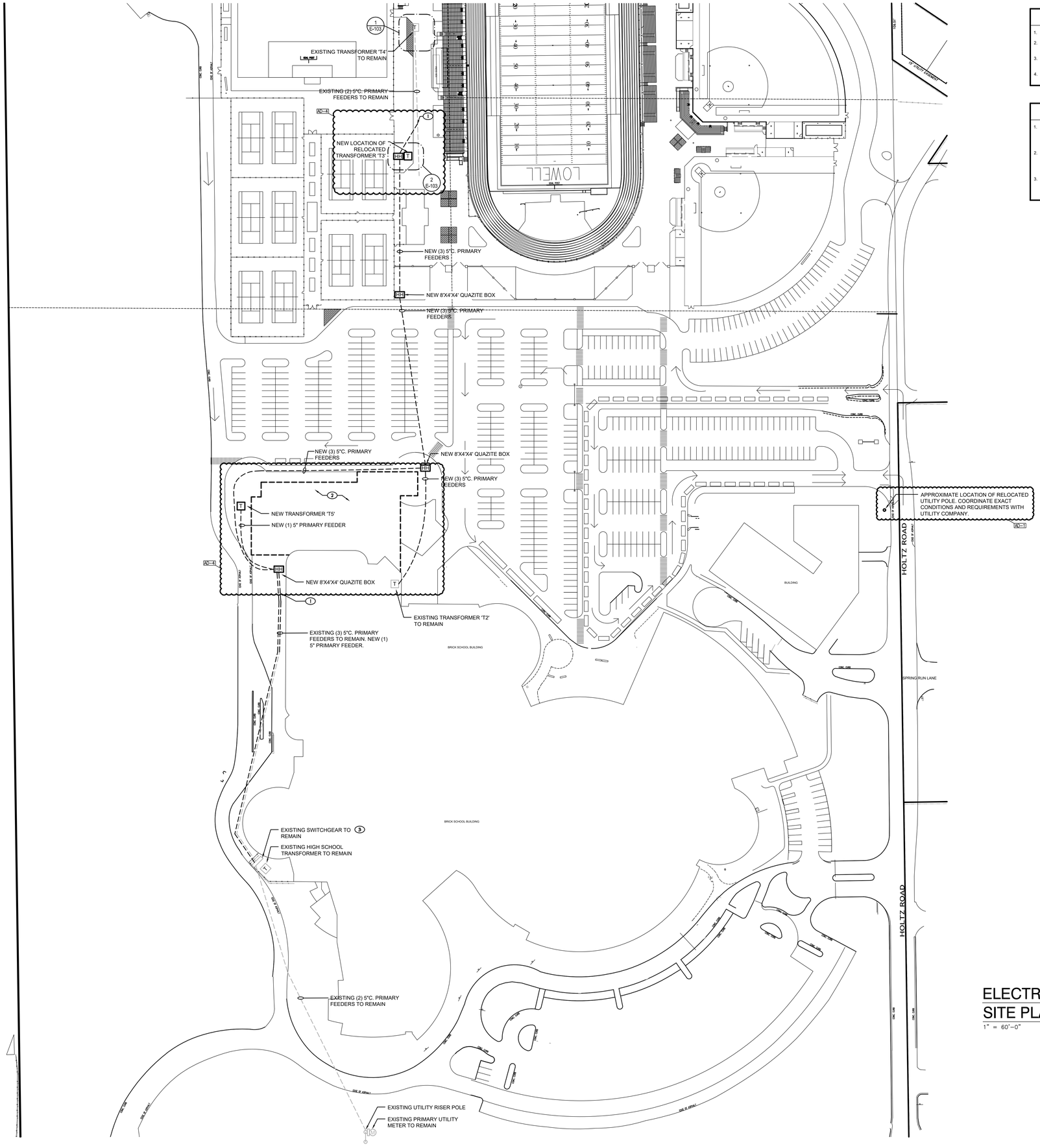
MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ENLARGED ELECTRICAL PLAN OF TENNIS COURTS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
ES107

Thursday, 9/14/2023 - 1:43 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\ES107.DWG



GENERAL NOTES

1. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
2. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
3. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
4. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL RACEWAY REQUIREMENTS.

SHEET NOTES

1. INTERCEPT EXISTING UNDERGROUND PRIMARY FEEDERS AND MODIFY AS REQUIRED. EXTEND AS INDICATED TO NEW HAND HOLE LOCATION. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
2. APPROXIMATE LOCATION OF PROPOSED FUTURE ADDITION. NEW UTILITIES SHALL BE ROUTED AROUND THIS AREA. CONTRACTOR TO SUBMIT NEW UNDERGROUND PRIMARY FEEDER LAYOUT SHOP DRAWING FOR REVIEW PRIOR TO ROUGH-IN.
3. EXTEND NEW PRIMARY CONDUIT OUT OF EXISTING SERVICE YARD SWITCHGEAR AS INDICATED. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL SITE PLAN - OVERALL

1" = 60'-0"

NORTH

GIBRALTAR DESIGN
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MILLIES ENGINEERING GROUP
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

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

REVISIONS

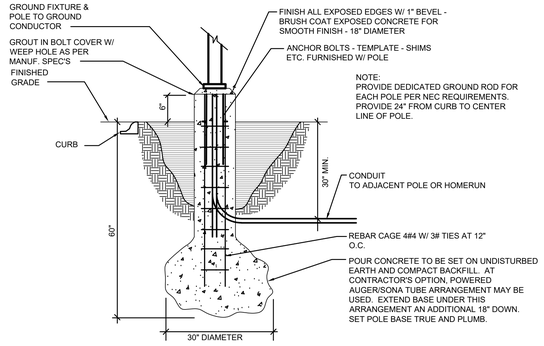
MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 01
AD-4	09/15/23	ADDENDUM NO. 04

DRAWING
ELECTRICAL SITE PLAN - OVERALL

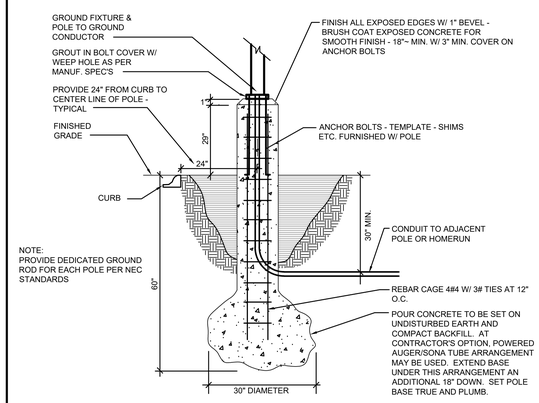
PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES109

6" POLE BASE DETAIL - GRASSY AREAS



TYPICAL 30" CONCRETE POLE BASE DETAIL - PARKING LOT AREAS



EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA		EXTERIOR LED DUAL-HEAD FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX2 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 40000 LM MAX 341 W	POLE MTD 30'-0" AFG	-COORD. FINISH WITH ARCHITECT
EB		EXTERIOR LED FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX2 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 22000 LM MAX 341 W	POLE MTD 30'-0" AFG	-COORD. FINISH WITH ARCHITECT
EC		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND STEEL POLE	LITHONIA #DSX0 LED P6 40K 80CRI T3M XVOLT MCGRAW-EDISON #GALN SERIES HUBBELL #VP-1 SERIES GARDCO #P26 SERIES	480 VOLT	LED 4000K MIN 1500 LM MAX 137 W	POLE MTD 25'-0" AFG	-COORD. FINISH WITH ARCHITECT
ED		EXTERIOR LED WALL MOUNTED SCONCE	LITHONIA #DSXW0 LED P6 40K 80CRI MVOLT XXX OR APPROVED EQUAL	120/277 VOLT	LED 4000K MIN 900 LM MAX 10 W	WALL MTD 6'-0" AFG TO CENTER	-COORD. FINISH WITH ARCHITECT
EF		EXTERIOR SIGNAGE LED FLOOD FIXTURE	LITHONIA #DSXF1 LED P2 40K HMF MVOLT THK UBV XXX OR APPROVED EQUAL	120/277 VOLT	LED 4000K MIN 5000 LM MAX 42 W	IN-GRADE	-COORD. FINISH WITH ARCHITECT
EG		EXTERIOR LED DUAL-HEAD FIXTURE MOUNTED ON A ROUND, TAPERED STEEL POLE	LITHONIA #DSX0 LED P6 40K 80CRI T3M XVOLT XXX MCGRAW-EDISON #GALN SERIES HUBBELL #VP-2 SERIES GARDCO #P34 SERIES	480 VOLT	LED 4000K MIN 15000 LM MAX 137 W	POLE MTD 25'-0" AFG	-COORD. FINISH WITH ARCHITECT

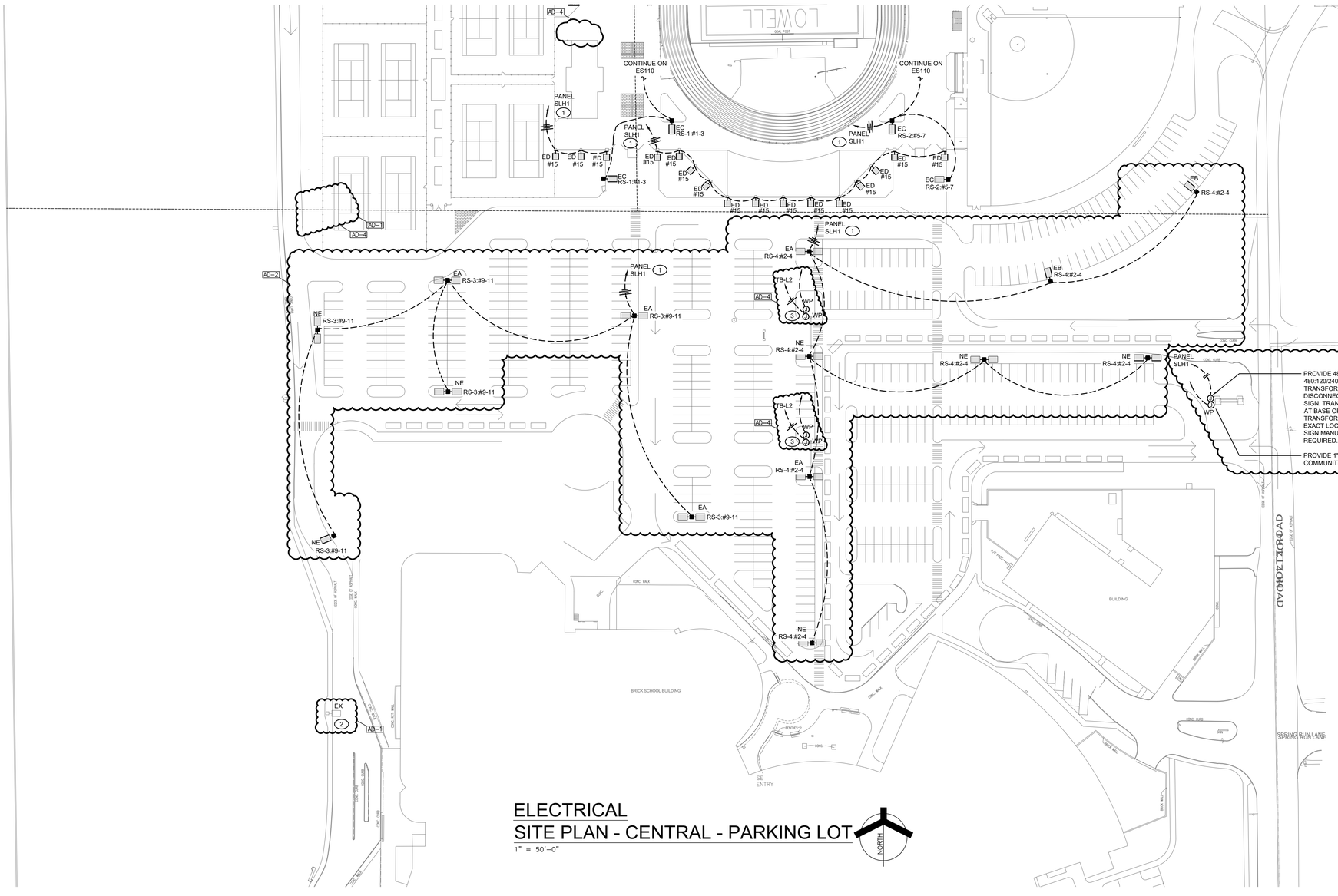
SHEET NOTES

1. CIRCUIT NEW SITE LIGHTING TO PANEL INDICATED VIA NEW LIGHTING CONTROL RELAYS. COORDINATE EXACT REQUIREMENTS IN FIELD.
2. RECONNECT EXISTING SITE LIGHTING CIRCUITRY AS REQUIRED DUE TO DEMOLITION OF EXISTING SITE LIGHTING FIXTURES. VERIFY EXACT CONDITIONS IN FIELD.
3. NEW MOTORIZED GATE. PROVIDE 120V POWER CONNECTION AND CIRCUIT TO PANEL INDICATED VIA 2 #8 & 1 #10 GRD. - 3/4"C. PROVIDE ADDITIONAL 1"C. WITH PULL STRING TO COMMUNITY BUILDING IT CLOSET FOR ACCESS CONTROL WIRING BY OTHERS.

AD-1

GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
3. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
4. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
5. REFER TO TECHNOLOGY PLANS FOR LOCATIONS OF POLE MOUNTED CAMERAS AND WIRELESS ACCESS EQUIPMENT. COORDINATE LOADING REQUIREMENTS WITH FINAL POLE SELECTION PRIOR TO ORDERING.



ELECTRICAL
SITE PLAN - CENTRAL - PARKING LOT

1" = 50'-0"

NORTH

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

MILLIES ENGINEERING GROUP
(219) 924-8400
www.milliesengineeringgroup.com

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/18/23	ADDENDUM NO. 01
AD-2	08/31/23	ADDENDUM NO. 02
AD-4	09/15/23	ADDENDUM NO. 04

DRAWING
ELECTRICAL SITE PLAN - CENTER - PARKING LOT

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

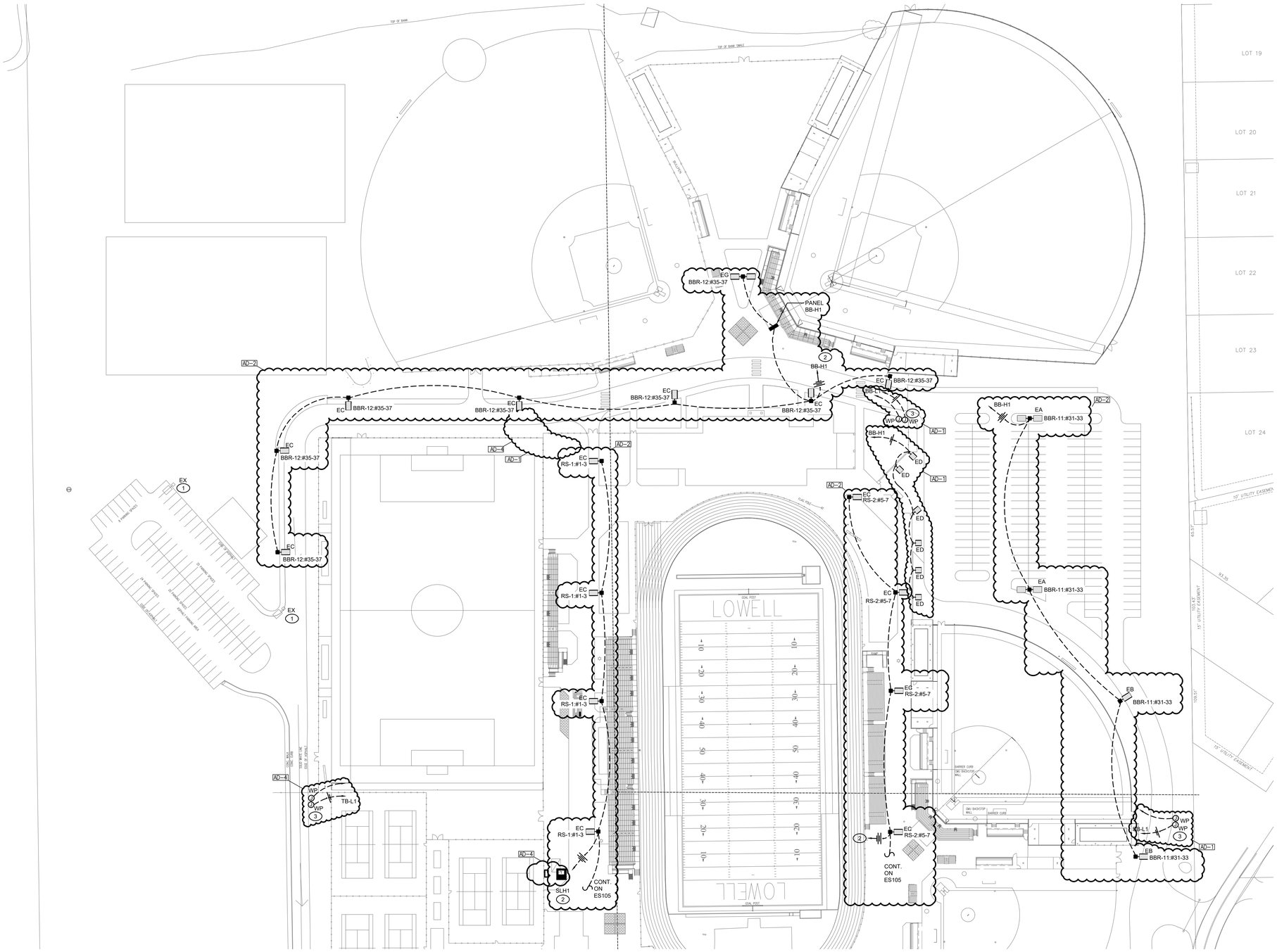
SHEET
ES111

SHEET NOTES

1. EXISTING SITE LIGHTING TO REMAIN. INTERCEPT EXISTING CIRCUITRY, AND EXTEND TO NEW BREAKER IN NEW PANEL SFH1.
2. CIRCUIT NEW SITE LIGHTING TO PANEL INDICATED VIA NEW LIGHTING CONTROL RELAYS. COORDINATE EXACT REQUIREMENTS IN FIELD.
3. NEW MOTORIZED GATE. PROVIDE 120V POWER CONNECTION AND CIRCUIT TO PANEL INDICATED VIA 2 #8 & 1 #10 GRD. - 3/4"C. PROVIDE ADDITIONAL 1"C. WITH PULL STRING TO NORTHSTAR BUILDING IT CLOSET FOR ACCESS CONTROL WIRING BY OTHERS. AD-1

GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. SITE SHALL BE PROVIDED WITH HANDHOLES AS REQUIRED.
3. VERIFY NEW AND EXISTING SITE CONDITIONS IN FIELD, AND WITH NEW SITE PLANS. MODIFY CONDUIT ROUTING AS REQUIRED.
4. REFER TO TRENCH DETAIL FOR UNDERGROUND CONDUIT INSTALLATION REQUIREMENTS.
5. REFER TO TECHNOLOGY PLANS FOR LOCATIONS OF POLE MOUNTED CAMERAS AND WIRELESS ACCESS EQUIPMENT. COORDINATE LOADING REQUIREMENTS WITH FINAL POLE SELECTION PRIOR TO ORDERING.



ELECTRICAL
SITE PLAN - NORTH - PARKING LOT

1" = 50'-0"

NORTH

GIBRALTAR DESIGN
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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

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AD-1	08/18/23	ADDENDUM NO. 01
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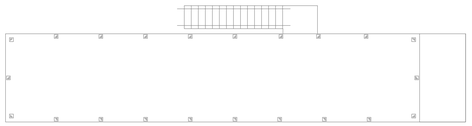
AD-4	09/15/23	ADDENDUM NO. 04

DRAWING
ELECTRICAL SITE PLAN - NORTH - PARKING LOT

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET
ES112



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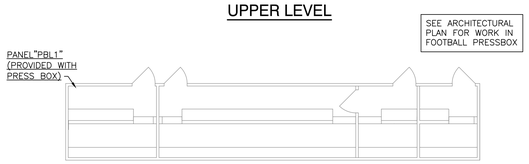
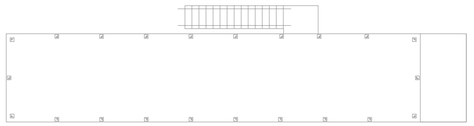


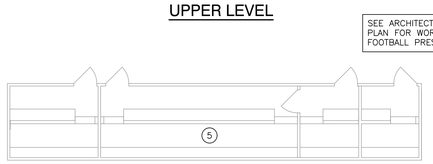
LOWER LEVEL

FOOTBALL PRESSBOX ELECTRICAL LIGHTING PLANS

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



UPPER LEVEL



LOWER LEVEL

FOOTBALL PRESSBOX ELECTRICAL POWER PLANS

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

GENERAL NOTES:

1. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
2. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
3. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.
4. CONNECT NIGHT LIGHTS/EMERGENCY LIGHTS AND EXIT SIGNS TO EXISTING EMERGENCY LIGHTING CIRCUITS SERVING THE EXISTING EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ON THIS SHEET, AHEAD OF ANY CONTROLS.

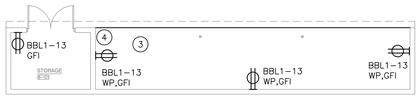
ELECTRICAL PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

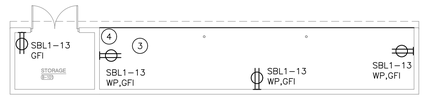
1. TORK DZS200BP TWO CHANNEL DIGITAL TIMECLOCK SBTC-1 CHANNEL ONE CONTROLS EXTERIOR BUILDING LIGHTS.
2. TORK DZS200BP TWO CHANNEL DIGITAL TIMECLOCK SBTC-2 CHANNEL ONE CONTROLS EXTERIOR BUILDING LIGHTS.
3. AD-4 — DIVISION 26 SHALL PROVIDE THE ELECTRICAL EQUIPMENT (PANELBOARDS, TRANSFORMERS, RELAYS, SPORTS LIGHTING RELAY CABINETS, TIMECLOCKS, DISCONNECTS, ETC SHOWN AS PART OF THIS SITE, BLEACHERS AND TURF/DRAINAGE PROJECT. LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE INCLUDED IN THIS PROJECT.
4. PROVIDE A JUNCTION BOX AND CABLING FOR SCOREBOARD CONTROLS. VERIFY EXACT WITH LOCATION WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO ROUGHING-IN. VERIFY TYPE OF CABLE AND ELECTRICAL REQUIREMENTS REQUIRED WITH SCOREBOARD MANUFACTURER AND OWNER.
5. INTERCEPT EXISTING EMERGENCY CIRCUIT SERVING THE EXISTING EMERGENCY LIGHTS IN THE PRESSBOX BEING REPLACED AND EXTEND TO THE NEW EMERGENCY LIGHTS IN THE NEW PRESSBOX.
6. AD-4 — PROVIDE THE APPROPRIATE GALVANIZED STRUCTURAL STEEL CHANNEL SUPPORTS FOR THE NEW ELECTRICAL EQUIPMENT.

HOME

HOME



HOME

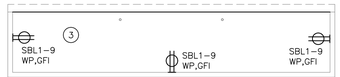


HOME

VISITOR

VARSITY BASEBALL DUGOUT ELECTRICAL PLANS

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



VISITOR

VARSITY SOFTBALL DUGOUT ELECTRICAL PLANS

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

VISITOR

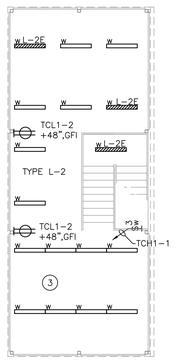
JUNIOR VARSITY BASEBALL DUGOUT ELECTRICAL PLANS

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

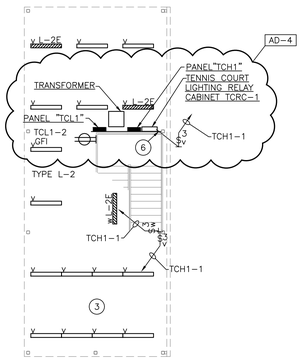
VISITOR

JUNIOR VARSITY SOFTBALL DUGOUT ELECTRICAL PLANS

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



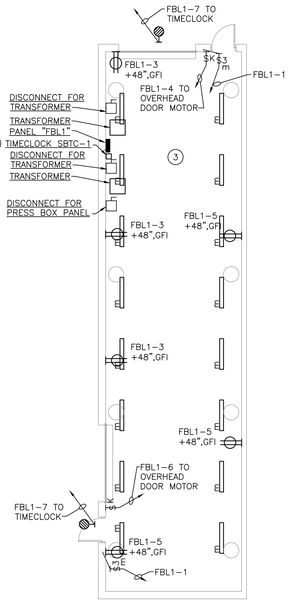
UPPER LEVEL



LOWER LEVEL

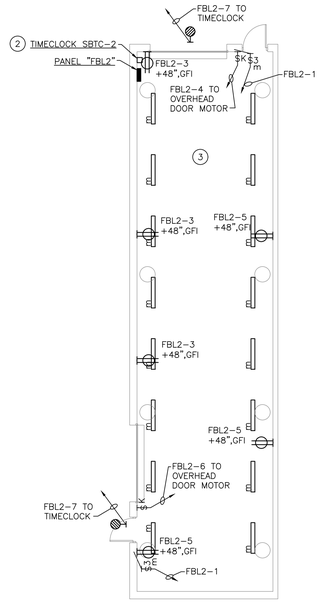
TENNIS PLATFORM ELECTRICAL PLANS

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



ATHLETIC STORAGE #1 ELECTRICAL PLAN

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



ATHLETIC STORAGE #2 ELECTRICAL PLAN

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

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PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

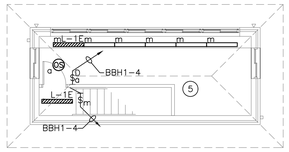
REVISIONS

MARK	DATE	ISSUED FOR
AD-3	09/08/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

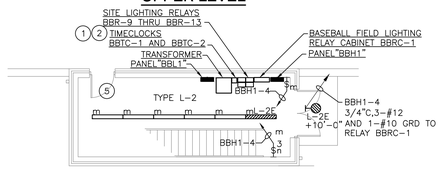
DRAWING
SITE BUILDING ELECTRICAL PLANS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-101



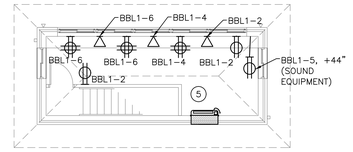
UPPER LEVEL



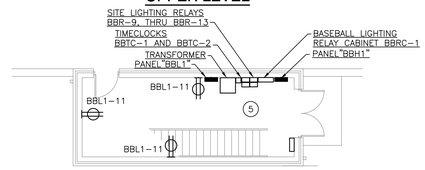
LOWER LEVEL

BASEBALL PRESSBOX ELECTRICAL LIGHTING PLANS

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



UPPER LEVEL



LOWER LEVEL

BASEBALL PRESSBOX ELECTRICAL POWER PLANS

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

GENERAL NOTES:

1. FOR ADDITIONAL GENERAL ELECTRICAL NOTES, SEE GENERAL ELECTRICAL PROJECT NOTES ON SHEET E-001.
2. SEE E-600 SHEETS FOR ELECTRICAL DETAILS AND SCHEDULES.
3. SEE E-700 SHEETS FOR ELECTRICAL DISTRIBUTION DIAGRAMS.

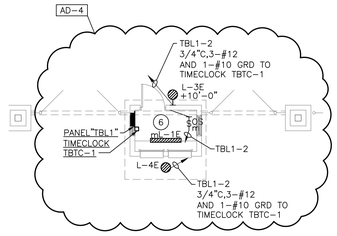
ELECTRICAL PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

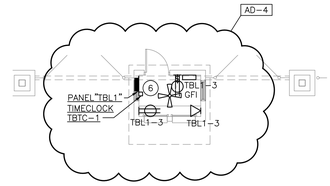
1. TORK DZS200BP FOUR CHANNEL DIGITAL TIMECLOCK BBTC-1. CHANNEL ONE CONTROLS RELAY BBR-9 (EXTERIOR LIGHTS), CHANNEL TWO CONTROLS RELAY BBR-10 (VARSITY BASEBALL FIELD FLAG POLE LIGHT), CHANNEL THREE CONTROLS RELAY BBR-13 (JV BASEBALL FIELD FLAG POLE LIGHT) AND CHANNEL FOUR IS A SPARE. (CIRCUIT BBH1-34).
2. TORK DZS200BP TWO CHANNEL DIGITAL TIMECLOCK BBTC-2 CHANNEL ONE CONTROLS RELAY BBR-11 (NORTHEAST PARKING LOT LIGHS LIGHTS) AND CHANEL TWO CONTROLS BBR-12 (NORTH DRIVE LIGHTS). (CIRCUIT BBH1-36).
3. TORK DZS400BP FOUR CHANNEL DIGITAL TIMECLOCK SBTC-1. CHANNEL ONE CONTROLS RELAY SBR-5 (EXTERIOR LIGHTS), CHANNEL TWO CONTROLS SBR-6 (VARSITY SOFTBALL FIELD FLAG POLE LIGHTS) AND CHANNEL THREE CONTROLS RELAY SBR-3 (JV SOFTBALL FIELD FLAG POLE LIGHT) AND CHANNEL FOUR IS A SPARE. (CIRCUIT SBH1-1).
4. TORK DZS400BP FOUR CHANNEL DIGITAL TIMECLOCK SFTC-1). CHANNEL ONE CONTROLS RELAY SFR-5 (EXTERIOR LIGHTS), CHANNEL TWO CONTROLS SFR-6 (FLAG POLE LIGHTS), CHANNEL THREE CONTROLS RELAY SFR-7 (WEST PARKING LOT LIGHTS) AND CHANNEL FOUR IS A SPARE. (CIRCUIT SFH1-1)
5. DIVISION 26 SHALL PROVIDE THE ELECTRICAL EQUIPMENT (PANELBOARDS, TRANSFORMERS, RELAYS, SPORTS LIGHTING RELAY CABINETS, TIMECLOCKS, DISCONNECTS, ETC SHOWN AS PART OF THIS SITE, BLEACHERS AND TURF/DRAINAGE PROJECT. LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE INCLUDED IN THIS PROJECT.

AD-4

6. DIVISION 26 SHALL PROVIDE THE ELECTRICAL EQUIPMENT (PANELBOARDS, TRANSFORMERS, RELAYS, SPORTS LIGHTING RELAY CABINETS, DISCONNECTS, ETC SHOWN AS PART OF THIS SITE, BLEACHERS AND TURF/DRAINAGE PROJECT. LIGHTING FIXTURES, RECEPTACLES, SWITCHES, TIMECLOCK, ETC. ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE INCLUDED IN THIS PROJECT.



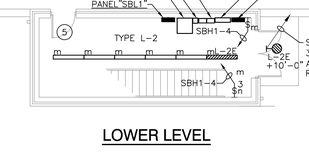
LIGHTING PLAN



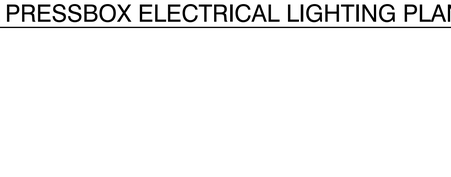
POWER PLAN

TICKET BOOTH #1 ELECTRICAL PLANS

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



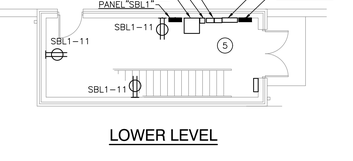
UPPER LEVEL



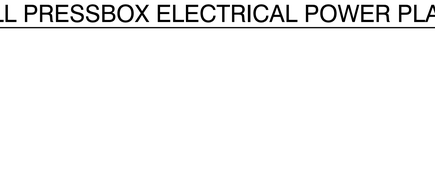
LOWER LEVEL

SOFTBALL PRESSBOX ELECTRICAL LIGHTING PLANS

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



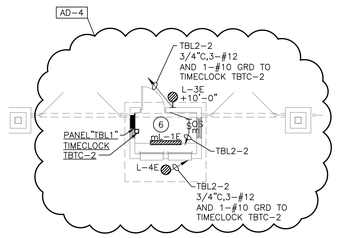
UPPER LEVEL



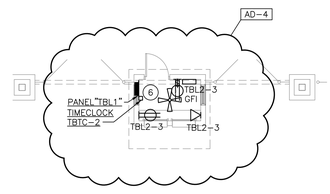
LOWER LEVEL

SOFTBALL PRESSBOX ELECTRICAL POWER PLANS

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



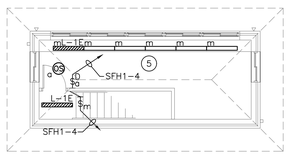
LIGHTING PLAN



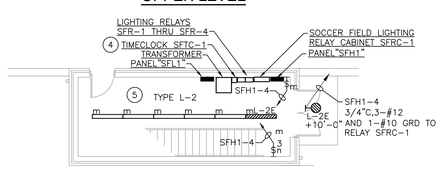
POWER PLAN

TICKET BOOTH #2 ELECTRICAL PLANS

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



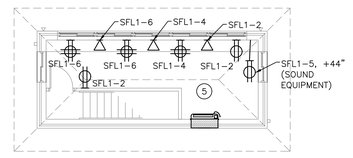
UPPER LEVEL



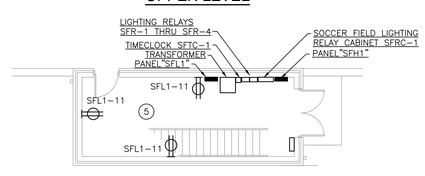
LOWER LEVEL

SOCCER PRESSBOX ELECTRICAL LIGHTING PLANS

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



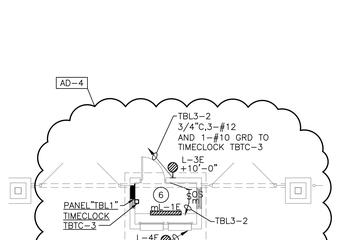
UPPER LEVEL



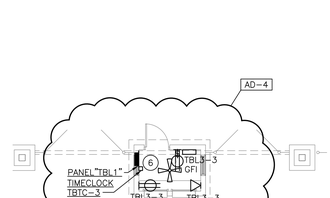
LOWER LEVEL

SOCCER PRESSBOX ELECTRICAL POWER PLANS

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



LIGHTING PLAN



POWER PLAN

TICKET BOOTH #3 ELECTRICAL PLANS

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

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

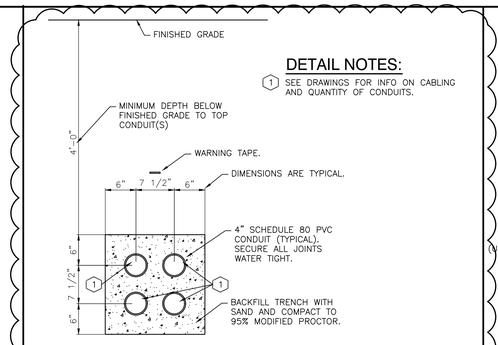
REVISIONS

MARK	DATE	ISSUED FOR
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
SITE BUILDING ELECTRICAL PLANS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-102



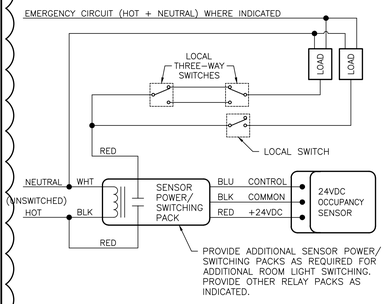
AD-4

DETAIL NOTES:

1. SEE DRAWINGS FOR INFO ON CABLING AND QUANTITY OF CONDUITS.

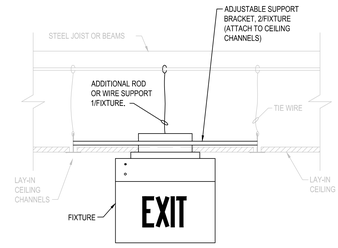
TYPICAL ELECTRICAL POWER DUCTBANK DETAIL

NOT TO SCALE



TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE



LAY-IN CEILING EXIT SIGN MOUNTING DETAIL

SCALE: NONE

DETAIL NOTES:

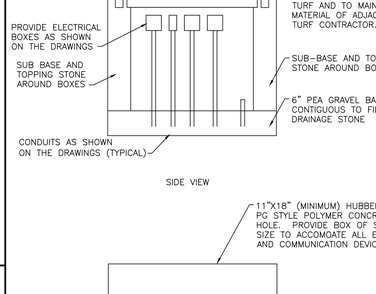
1. SEE DRAWINGS FOR INFO ON CABLING AND QUANTITY OF CONDUITS.

ELECTRICAL POWER DUCTBANK DETAIL

NOT TO SCALE

TYPICAL OCCUPANCY SENSOR MOUNTING DETAIL

NOT TO SCALE



RECESSED TROFFER FIXTURE MOUNTING DETAIL

NOT TO SCALE

NOTES:
DO NOT INSTALL POWER PACKS CLOSER THAN 6-12 INCHES FROM SENSOR.
DO NOT INSTALL POWER PACKS WITHOUT JUNCTION BOXES.

STACKED JUNCTION BOXES

SIDE BY SIDE JUNCTION BOXES

TYPICAL OCCUPANCY SENSOR POWER/SWITCHING AND RELAY PACK MOUNTING DETAIL

NOT TO SCALE

NOTE: LABELS SHALL BE:
NORMAL POWER: BLACK WITH WHITE LETTERS
EMERGENCY POWER: RED WITH WHITE LETTERS

DISTRIBUTION PANEL, PANELBOARD, TRANSFORMER, AND DISCONNECT SWITCH LABELING DETAIL

SCALE: NONE

TYPICAL FOOTBALL FIELD HAND HOLE BOX DETAIL

NOT TO SCALE

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
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JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

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AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL DETAILS

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-501

LOWELL HIGH SCHOOL ATHLETIC FIELDS LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURERS	VOLTAGE	LIGHT SOURCE	MINIMUM LUMENS	DEGREE K	MAXIMUM WATTAGE	DIMMING	MOUNTING	DESCRIPTION
BBL-1/A1	MUSCO TLC-LED-1200 /MUSCO TLC--LED-1500 AND MUSCO TLC-BT-575 OR APPROVED EQUALS	480	LED	136,000 LUMENS	5700	1200/1500/ 525 WATTS		POLE	FOUR (4) 1200 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 80'-0" ABOVE GROUND, TWO (2) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +80'-0" ABOVE AND ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND ON 80'-0" (ABOVE GROUND) POLE.
BBL-2/A2	MUSCO TLC-LED-1200 /MUSCO TLC--LED-1500 AND MUSCO TLC-BT-575 OR APPROVED EQUALS	480	LED	136,000 LUMENS	5700	1200/1500/ 525 WATTS		POLE	FOUR (4) 1200 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 80'-0" ABOVE GROUND, TWO (2) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +80'-0" ABOVE AND ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND ON 80'-0" (ABOVE GROUND) POLE.
BBL-3/B1	MUSCO TLC-LED-1200/MUSCO TLC-LED-900/MUSCO TLC-BT-575/MUSCO TLC-LED-1500 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/900/575/1500 WATTS		POLE	ONE (1) 1200 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 90'-0" ABOVE GROUND, TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES, ONE (1) 575 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND THREE (3) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +90'-0" ABOVE GROUND ON 90'-0" POLE (ABOVE GROUND).
BBL-4/B2	MUSCO TLC-LED-1200/MUSCO TLC-LED-900/MUSCO TLC-BT-575/MUSCO TLC-LED-1500 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/900/575/1500 WATTS		POLE	ONE (1) 1200 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 90'-0" ABOVE GROUND, TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES, ONE (1) 575 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND THREE (3) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +90'-0" ABOVE GROUND ON 90'-0" POLE (ABOVE GROUND).
BBL-5/C1	MUSCO TLC-LED-900/MUSCO TLC-BT-575/MUSCO TLC-LED-1200 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	900/575/ 1200 WATTS		POLE	TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND AND TWO (2) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" ABOVE GROUND POLE.
BBL-6/C2	MUSCO TLC-LED-900/MUSCO TLC-BT-575/MUSCO TLC-LED-1200 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	900/575/ 1200 WATTS		POLE	TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND AND TWO (2) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" ABOVE GROUND POLE.
BBL-7/D1	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/575/900 WATTS		POLE	TWO (2) 1200 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND AND TWO (2) 900 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" ABOVE GROUND POLE.
BBL-8/D2	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) 1200 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +15'-6" ABOVE GROUND AND TWO (2) 900 WATT LED LIGHTING FIXTURE MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" ABOVE GROUND POLE.
SBL-1/A3	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/575/900 WATTS		POLE	ONE (1) 1500 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 60'-0" ABOVE GROUND, ONE (1) 575 WAT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND TWO (2) 900 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +60'-0" ABOVE GROUND ON 60'-0" (ABOVE GROUND) POLE.
SBL-2/A2	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/575/900 WATTS		POLE	ONE (1) 1500 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 60'-0" ABOVE GROUND, ONE (1) 575 WAT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND TWO (2) 900 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +60'-0" ABOVE GROUND ON 60'-0" (ABOVE GROUND) POLE.
SBL-3/B3	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/575/1500 WATTS		POLE	TWO (2) 1500 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND THREE(3) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" (ABOVE GROUND) POLE.
SBL-4/B4	MUSCO TLC-LED-1200/MUSCO TLC-BT-575/MUSCO TLC-LED-900 OR APPROVED EQUAL	480	LED	136,000 LUMENS	5700	1200/575/1500 WATTS		POLE	TWO (2) 1500 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARM AT 70'-0" ABOVE GROUND, ONE (1) 575 WATT LED TYPE LIGHTING FIXTURE MOUNTED ON CROSSARM AT 15'-6" ABOVE GROUND AND THREE(3) 1500 WATT LED LIGHTING FIXTURES MOUNTED ON CROSSARM AT +70'-0" ABOVE GROUND ON 70'-0" (ABOVE GROUND) POLE.
TCL-1/T1	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1150 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON RELOCATED 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-2/T2	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON RELOCATED 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-3/T3	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 60'-0" ABOVE GROUND ON RELOCATED 60 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-4/T4	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 60'-0" ABOVE GROUND ON RELOCATED 60 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-5/T5	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 60'-0" ABOVE GROUND ON RELOCATED 60 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-6/T6	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 60'-0" ABOVE GROUND ON RELOCATED 60 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-7/T7	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON RELOCATED 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-8/T8	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1200 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-9/T9	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1150 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON RELOCATED 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-10/T10	MUSCO TLC-LED-1150	480	LED	121,000 LUMENS	5700	1150 WATTS		POLE	TWO (2) NEW/RELOCATED 1150 WATT LED LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS AT 50'-0" ABOVE GROUND ON RELOCATED 50 FOOT POLE (ABOVE GROUND). PROVIDE NEW CONCRETE POLE BASE.
TCL-11/T11	MUSCO TLC-LED-1150/MUSCO TLC-LED-900	480	LED	121,000/ 104,000 LUMENS	5700	1150/900 WATTS		POLE	TWO (2) 1150 WATT LED LIGHTING FIXTURES AND TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARMS AT 60'-0" ABOVE GROUND ON 60 FOOT POLE (ABOVE GROUND)
TCL-12/T12	MUSCO TLC-LED-1150/MUSCO TLC-LED-900	480	LED	121,000/ 104,000 LUMENS	5700	1150/900 WATTS		POLE	TWO (2) 1150 WATT LED LIGHTING FIXTURES AND TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARMS AT 60'-0" ABOVE GROUND ON 60 FOOT POLE (ABOVE GROUND)
TCL-13/T13	MUSCO TLC-LED-1150/MUSCO TLC-LED-900	480	LED	121,000/ 104,000 LUMENS	5700	1150/900 WATTS		POLE	TWO (2) 1150 WATT LED LIGHTING FIXTURES AND TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARMS AT 50'-0" ABOVE GROUND ON 50 FOOT POLE (ABOVE GROUND)
TCL-14/T14	MUSCO TLC-LED-1150/MUSCO TLC-LED-900	480	LED	121,000/ 104,000 LUMENS	5700	1150/900 WATTS		POLE	TWO (2) 1150 WATT LED LIGHTING FIXTURES AND TWO (2) 900 WATT LED TYPE LIGHTING FIXTURES MOUNTED ON CROSSARMS AT 50'-0" ABOVE GROUND ON 50 FOOT POLE (ABOVE GROUND)

NOTE: ANY SUBMITTED EQUALS MUST INLCUDE DATA SHEETS, FULL SIZE DRAWINGS SHOWING FOOTCANDLES AND ALL APPROPRIATE INFORMATION SHOWING COMPLIANCE WITH DESIGN CRITERIA AND BE SUBMITTED AND APPROVED PRIOR TO BIDDING.

AD-4

LOWELL HIGH SCHOOL ATHLETIC FIELDS LIGHTING FIXTURE SCHEDULE

FBL-1/F1	MUSCO TLC-LED-1200 THREE (3) PER POLE/MUSCO TLC-LED-1500 SEVEN (7) PER POLE/TLC-BT-575 TWO (2) PER POLE/TLC-LED-550 ONE (1) PER POLE	480	LED	150,000/ 181,000/ 52,000 LUMENS	4000	1200/1500/ 575/550 WATTS		POLE	LED TYPE LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS TO BE MOUNTED ON EXISTING FOOTBALL FIELD LIGHTING POLES.
FBL-2/F2	MUSCO TLC-LED-1200 THREE (3) PER POLE/MUSCO TLC-LED-1500 SEVEN (7) PER POLE/TLC-BT-575 TWO (2) PER POLE/TLC-LED-550 ONE (1) PER POLE	480	LED	150,000/ 181,000/ 52,000 LUMENS	4000	1200/1500/ 575/550 WATTS		POLE	LED TYPE LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS TO BE MOUNTED ON EXISTING FOOTBALL FIELD LIGHTING POLES.
FBL-3/F3	MUSCO TLC-LED-1200 THREE (3) PER POLE/MUSCO TLC-LED-1500 SEVEN (7) PER POLE/TLC-BT-575 TWO (2) PER POLE/TLC-LED-550 ONE (1) PER POLE	480	LED	150,000/ 181,000/ 52,000 LUMENS	4000	1200/1500/ 575/550 WATTS		POLE	LED TYPE LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS TO BE MOUNTED ON EXISTING FOOTBALL FIELD LIGHTING POLES.
FBL-4/F4	MUSCO TLC-LED-1200 THREE (3) PER POLE/MUSCO TLC-LED-1500 SEVEN (7) PER POLE/TLC-BT-575 TWO (2) PER POLE/TLC-LED-550 ONE (1) PER POLE	480	LED	150,000/ 181,000/ 52,000 LUMENS	4000	1200/1500/ 575/550 WATTS		POLE	LED TYPE LIGHTING FIXTURES MOUNTED ON NEW CROSSARMS TO BE MOUNTED ON NEW SHOT PUT/DISCUSS AREA 80'-0" (ABOVE GROUND) LIGHTING POLES.
FBL-5/P1	MUSCO TLC-LED-1500	480	LED	181,000 LUMENS	4000	1500 WATTS		POLE	FIVE (5) MUSCO TLC-1500 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON NEW (80'-0" ABOVE GROUND) POLES.
FBL-6/P2	MUSCO TLC-LED-900	480	LED	104,000 LUMENS	4000	1500 WATTS		POLE	TWO (2) MUSCO TLC-900 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON NEW (50'-0" ABOVE GROUND) POLES.
SFL-1/S1	MUSCO TLC-LED-1500	480	LED	181,000 LUMENS	4000	1500 WATTS		POLE	FIVE (5) MUSCO TLC-1500 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON RELOCATED POLES TO BE MOUNTED ON NEW POLE BASES.
SFL-2/S2	MUSCO TLC-LED-1500	480	LED	181,000 LUMENS	4000	1500 WATTS		POLE	FIVE (5) MUSCO TLC-1500 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON RELOCATED POLES TO BE MOUNTED ON NEW POLE BASES.
SFL-3/S3	MUSCO TLC-LED-1500	480	LED	181,000 LUMENS	4000	1500 WATTS		POLE	FIVE (5) MUSCO TLC-1500 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON RELOCATED POLES TO BE MOUNTED ON NEW POLE BASES.
SFL-4/S4	MUSCO TLC-LED-1500	480	LED	181,000 LUMENS	4000	1500 WATTS		POLE	FIVE (5) MUSCO TLC-1500 LED LIGHTING FIXTURES AND CROSS ARMS MOUNTED ON RELOCATED POLES TO BE MOUNTED ON NEW POLE BASES.
SL-1	FC OUTDOOR LIGHTING FCFF1109-UNV-4K-CRI90-73L-CCE-40-LD-CV9-FE6	277	LED	3620 LUMENS	4000	26 WATTS		POLE	BRACKET MOUNTED TO SCOREBOARD SUPPORT STRUCTURE.

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AD-4

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

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DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-602

Wednesday, 9/13/2023 - 1:43 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\E-602.DWG

AD-4

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SBH1"
TYPE: SQ D I-LINE OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF PRESSBOX.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
BASEBALL FIELD LIGHTS POLE (BBL1-9/A2) (RELAY BBR-8/C2)	1	3	20	2.70			2.70									
				2.70			2.70						3	20	2	BASEBALL FIELD LIGHTS POLE (BBL1A1) (RELAY BBR-1/C1)
	3			2.70				2.70							4	
				2.70				2.70								
	5			2.70					2.70						6	
BASEBALL FIELD LIGHTS POLE (BBL-7/B2) (RELAY BBR-7/C4)	7	3	20	2.58			2.58									
				2.58			2.58						3	20	8	BASEBALL FIELD LIGHTS POLE (BBL2/B1) (RELAY BBR-2/C3)
	9			2.58				2.58							10	
				2.58				2.58								
	11			2.58					2.58						12	
BASEBALL FIELD LIGHTS POLE (BBL-6/C2) (RELAY BBR-6/C6)	13	3	20	2.38			2.38									
				2.38			2.38						3	20	14	BASEBALL FIELD LIGHTS POLE (BBL3/C1) (RELAY BBR-3/C5)
	15			2.38				2.38							16	
				2.38				2.38								
	17			2.38					2.38						18	
BASEBALL FIELD LIGHTS POLE (BBL-5/D2) (RELAY BBR-5/C8)	19	3	25	2.38			2.38									
				2.38			2.38						3	20	20	BASEBALL FIELD LIGHTS POLE (BBL4/D1) (RELAY BBR-4/C7)
	21			2.38				2.38							22	
				2.38				2.38								
	23			2.38					2.38						24	
EAST BASEBALL FIELD PARKING LOT (RELAY SR-9)	25	3	20													
				0.24	2.76	3.00	6.00						3	70	26	TRANSFORMER (PANEL "BBL1")
	27														28	
				1.00	2.58	2.00		5.58								
	29														30	
					3.90	2.50			6.40							
NORTHEAST BASEBALL FIELD PARKING LOT LIGHTS (RELAY BBR-11)	31	2	20	0.85			0.85									
				0.16		1.00	1.16						1	20	32	BASEBALL PRESSBOX EXTERIOR LIGHT/ RELAY BBR-9 FLAG POLE LIGHTS/ RELAY RBB-10/ TIMECLOCK
	33			0.85				0.85								
						1.00		1.00					1	20	34	RELAYS BBR-11 AND BR-12 CONTROLS/ TIMECLOCK
NORTH DRIVE LIGHTS (RELAY BBR-12)	35	2	20	0.60					0.60							
													1	20	36	SPARE
	37			0.60				0.60								
													1	20	38	SPARE
SPARE	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
TOTAL CONNECTED LOAD (kVA)				64.54	9.24	9.50	38.69	27.51	27.08							
TOTAL DEMAND LOAD (kVA)				64.54	9.24	9.50										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"BBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX STORAGE LIGHTS	1	1	20	0.24			0.24									
					0.72		0.72						1	20	2	PRESSBOX RECPS
SPARE	3	1	20													
					0.54			0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20		1.50				1.50							
					0.72				0.72				1	20	6	PRESSBOX RECPS
DUGOUT RECPS	7	1	20		0.54		0.54									
						1.00	1.00						1	20	8	RELAYS BBR-1 THRU BBR-4
DUGOUT RECPS	9	1	20		0.54			0.54								
						1.00		1.00					1	20	10	RELAYS BBR-5 THRU BBR-8
STORAGE RECPS	11	1	20		0.18				0.18							
						1.50			1.50				1	20	12	SCOREBOARD
RELAYS BBR-1 THRU BBR-4	13	1	20			1.00	1.00									
						1.50		1.50					1	20	14	BATTING CAGE RECEPTACLE
RELAYS BBR-5 THRU BBR-8	15	1	20			1.00		1.00								
						1.50		1.50					1	20	16	BATTING CAGE RECEPTACLE
SPARE	17	1	20													
						0.36			0.36				1	20	18	RECP NEAR VARSITY AND JV SCOREBOARD
ECH-1 (3 KW)	19	2	20					1.50				1.50				
	21	1	20				1.00		2.50			1.50	1	20	20	SPARE
							1.00		1.00				1	20	22	MOTORIZED GATE
SPARE	23	1	20				1.00									
									1.00				2	20	24	PTAC-1
SPARE	25	1	20				1.00	1.00								
															26	
SPARE	27	1	20			1.00			1.00							
													2	60	28	PANEL "TBL3"
SPARE	29	1	20													
						1.50			1.50						30	
TOTAL CONNECTED LOAD (kVA)				1.24	9.60	9.50	7.50	9.08	6.76	3.00						
TOTAL DEMAND LOAD (kVA)				1.24	9.60	9.50				3.00						

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SBH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF SOFTBALL FIELD PRESS BOX.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESS BOX EXTERIOR LIGHTS/ RELAY SBR-5 FLAG POLE LIGHT/ RELAY SBR-6	1	1	20	1.00			1.00									
													1	20	2	SPARE
SPARE	3	1	20													
													1	20	4	SPARE
SPARE	5	1	20													
													1	20	6	SPARE
SOFTBALL FIELD LIGHTS POLE (SBL-4/A4) (RELAY SBR-4/C4)	7	3	20	1.17			1.17									
				1.17			1.17						3	20	8	SOFTBALL FIELD LIGHTS POLE (SBL-1/A3) (RELAY SBR-1/C1)
	9			1.17				1.17							10	
				1.17				1.17								
	11			1.17					1.17						12	
SOFTBALL FIELD LIGHTS POLE (SBL-3/B4) (RELAY SBR-3/C3)	13	3	20	2.39			2.39									
				2.39			2.39						3	20	14	SOFTBALL FIELD LIGHTS POLE (SBL-2/B3) (RELAY SBR-2/C2)
	15			2.39				2.39							16	
				2.39				2.39								
	17			2.39					2.39						18	
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPACE	25	1														
													1		26	SPACE
SPACE	27	1														
													1		28	SPACE
SPACE	29	1														
													1		30	SPACE
SPACE	31	1														
																30 KVA XFMR (PANEL "SFL1")
SPACE	33	1					6.29	6.29					3	70	32	
							6.29		6.29						34	SPACE
SPACE	35	1														
							7.29								36	
SPACE	37	1						7.29								
													1		38	SPACE
SPACE	39	1														
													1		40	SPACE
SPACE	41	1														
													1		42	SPACE
TOTAL CONNECTED LOAD (kVA)				22.36			19.87	14.41	13.41	14.41						
TOTAL DEMAND LOAD (kVA)				22.36			19.87									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX STORAGE LIGHTS	1	1	20	0.24			0.24									
					0.72		0.72						1	20	2	PRESSBOX RECPS
RELAYS SBR-1 THRU SBR-4	3	1	20			1.00		1.00								
					0.54			0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20		1.50				1.50							
					0.72				0.72				1	20	6	PRESSBOX RECPS
HOME DUGOUT RECPS	7	1	20		0.54		0.54									
													1	20	8	SPARE
VISITOR DUGOUT RECPS	9	1	20		0.54			0.54								
													1	20	10	SPARE
STORAGE RECPS	11	1	20		0.18				0.18							
						1.50			1.50				1	20	12	VARSITY SCOREBOARD
SPARE	13	1	20													
					1.50		1.50						1	20	14	BATTING CAGE RECEPTACLE
SPARE	15	1	20													
					1.50			1.50					1	20	16	BATTING CAGE RECEPTACLE
SPARE	17	1	20													
					0.18				0.18				1	20	18	RECP AT SCOREBOARD
ECH-3 (3 KW)	19	2	20					1.50				1.50				
	21					1.50	1.50						1	20	20	JV SCOREBOARD
								1.50				1.50	1	20	22	SPARE
SPARE	23	1	20						2.00	2.00						
						1.00			1.00				2	20	24	PTAC-1
SPARE	25	1	20													
						1.00	1.00								26	
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				0.24	7.92	6.00	7.00	5.08	7.08	5.00						
TOTAL DEMAND LOAD (kVA)				0.24	7.92	6.00				5.00						

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-3	09/08/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-603

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TCH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF TENNIS PLATFORM AREA

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPARE	1	1	20													
						1.00	1.00						1	20	2	RELAY TCR-1 THRU TCR-8 CONTROL
SPARE	3	1	20													
						1.00		1.00					1	20	4	RELAY TCR-9 THRU TCR-14 CONTROL
SPARE	5	1	20													
													1	20	6	SPARE
TENNIS COURT LIGHTS (RELAYS TCR-1 THRU TCR-4)	7	3	20	3.10			3.10									
				3.10				3.10					3	20	8	TENNIS COURT LIGHTS (RELAYS TCR-9 THRU TCR-10)
	9			3.10				3.10								
				3.10					3.10						10	
	11			3.10					3.10							
				3.10					3.10						12	
TENNIS COURT LIGHTS (RELAYS TCR-5 THRU TCR-8)	13	3	20	3.10			3.10									
																TENNIS COURT LIGHTS (RELAYS TCR-11 THRU TCR-12)
	15			3.10				3.10					3	20	14	
	17			3.10					3.10						16	
															18	
SPARE	19	3	20													
				3.10			3.10									TENNIS COURT LIGHTS (RELAYS TCR-13 THRU TCR-14)
	21												3	20	20	
				3.10				3.10							22	
	23			3.10					3.10						24	
SPACE	25	3														
													3		26	SPACE
	27														28	
	29														30	
SPACE	31	3														
				0.32	2.22		2.54						3	70	32	30 kVA XFMR (PANEL "TCL1")
	33				4.50			4.50							34	
	35				1.68	1.50			3.18						36	
SPACE	37	1											1		38	
SPACE	39	1														
													1		40	
SPACE	41	1														
													1		42	
TOTAL CONNECTED LOAD (kVA)				37.52	8.40	3.50	15.94	17.90	15.58							
TOTAL DEMAND LOAD (kVA)				37.52	8.40	3.50										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TCL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

LOCATED AT LOWER LEVEL OF TENNS PLATFORM AREA

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
TENNIS PLATFORM AREA LIGHTS	1	1	20	0.24			0.24									
													1	20	2	TENNIS PLATFORM AREA RECPS
TENNIS COURT RECPS (BALL MACHINES)	3	1	20		1.50			1.50								
													1	20	4	TENNIS COURT RECPS (BALL MACHINES)
					1.50			1.50								
TENNIS COURT RECPS (BALL MACHINES)	5	1	20		1.50				1.50							
													1	20	6	SPARE
TENNIS COURT RECPS (BALL MACHINES)	7	1	20		1.50		1.50									
													1	20	8	SPARE
				0.08			0.08									
SPARE	9	1	20										1	20	10	SPARE
SPARE	11	1	20			1.50			1.50				1	20	12	SPARE
SPARE	13	1	20										1	20	14	SPARE
SPARE	15	1	20										1	20	16	SPARE
SPARE	17	1	20										1	20	18	SPARE
TOTAL CONNECTED LOAD (kVA)				0.32	6.54	1.50	2.36	3.00	3.00							
TOTAL DEMAND LOAD (kVA)				0.32	6.54	1.50										

LOWELL HIGH SCHOOL SITE DEVELOPMENT PANELBOARD SCHEDULE

MARK & TYPE
"SLH1"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
WEST WALKWAYS LIGHTS (RELAY RS-1)	1	2	20	0.35			0.35									
																SOUTHEAST PARKING LOT LIGHTS (RELAY RS-4)
				2.05			2.05						2	20	2	
	3			0.35				0.35								
				2.05				2.05							4	
EAST WALKWAYS LIGHTS (RELAY RS-2)	5	2	20	0.35				0.35								
				1.50				1.50					2	20	6	SCHOOL SIGN (3 KW)
	7			0.35			0.35									
				1.50			1.50								8	
SOUTHWEST PARKING LOT LIGHTS (RELAY RS-3)	9	2	20	1.85				1.85								
													2	20	10	SPARE
	11			1.85					1.85						12	
SITE LIGHTING RELAYS CONTROL CIRCUIT/TIMECLOCK	13	1	20				1.00	1.00								
													1	20	14	SPARE
ATHLETIC FIELD ENTRY LIGHTS/TIMECLOCK	15	1	20	1.00					1.00							
													1	20	16	SPARE
SPACE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE		1	20													
													1	20	28	SPARE
SPARE		1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				13.20		1.00	5.25	5.25	3.70							
TOTAL DEMAND LOAD (kVA)				13.20		1.00										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SLH1"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/208V, 1 PH, 3W
100 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	0.50			0.50								
						0.50	0.50					1	20	2	TIMECLOCK
RECEPTACLE	3	1	20		0.72			0.72							
						0.50		0.50				1	20	4	PLAY CLOCK
CEILING FAN	5	1	20			0.16	0.16								
						1.50	1.50					1	20	6	MOTORIZED GATE
SPARE	7	1	20												
												1	20	8	SPARE
PANEL "TBL2"	9	2	60	0.50		0.66	1.16								
					0.72		0.72					1	20	10	SPARE
	11														
												1	20	12	SPARE
TOTAL CONNECTED LOAD (kVA)				1.00	1.44	3.32	4.54	1.22							
TOTAL DEMAND LOAD (kVA)				1.00	1.44	3.32									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TBL1"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/208V, 1 PH, 3W
50 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

IN ADDITION TO SPECIFIED ENGRAVED PANEL LABELING INCLUDE ENGRAVE LABELING ON PANEL "FED FROM PANEL "TBL1" IN EAST TICKET BOOTH".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20	0.50			0.50								
						0.50	0.50					1	20	2	TIMECLOCK
RECEPTACLE	3	1	20		0.72			0.72							
												1	20	4	SPARE
CEILING FAN	5	1	20			0.16	0.16								
												1	20	6	SPARE
SPARE	7	1	20												
												1	20	8	SPARE
SPACE	9	1	20												
												1	20	10	SPACE
SPACE	11	1	20												
												1	20	12	SPACE
TOTAL CONNECTED LOAD (kVA)				0.50	0.72	0.66	1.16	0.72							
TOTAL DEMAND LOAD (kVA)				0.50	0.72	0.66									

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"TBL3"
TYPE: SQ D NQ OR APPROVED EQUAL.
120/240V, 1 PH, 3W
50 AMP MAIN BREAKER
NEMA 1
FLUSH MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

IN ADDITION TO SPECIFIED ENGRAVED PANEL LABELING INCLUDE ENGRAVE LABELING ON PANEL "FED FROM PANEL "BBL1" IN BASEBALL PRESSBOX".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
LIGHTS	1	1	20												
												1	20	2	TIMECLOCK
RECEPTACLE	3	1	20												
												1	20	4	SPARE
SPARE	5	1	20												
												1	20	6	SPARE
SPARE	7	1	20												
												1	20	8	SPARE
SPACE	9	1	20												
												1	20	10	SPACE
SPACE	11	1	20												
												1	20	12	SPACE
TOTAL CONNECTED LOAD (kVA)															
TOTAL DEMAND LOAD (kVA)															

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SFH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
225 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

LOCATED IN LOWER LEVEL OF PRESS BOX.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESS BOX LIGHTS/ RELAY SFR-5 /FLAG POLE LIGHT/ RELAY SFR-6 RELAY SFR-7/TIMECLOCK	1	1	20	1.00				1.00								
													1	20	2	SPARE
SPARE	3	1	20													
													1	20	4	SPARE
SPARE	5	1	20													
													1	20	6	SPARE
SOCCER FIELD LIGHTS POLE (SFL-3/S3) (RELAY SFR-3/C3)	7	3	20	2.35			2.35									
																SOCCER FIELD LIGHTS POLE (SFL-4/F4) (RELAY SFR-4/C4)
				2.35				2.35					3	20	8	
	9			2.35					2.35							
				2.35					2.35						10	
	11			2.35					2.35							
				2.35					2.35						12	
SOCCER FIELD LIGHTS POLE (SFL-2/S2) (RELAY SFR-2/C2)	13	3	20	2.35			2.35									
																SOCCER FIELD LIGHTS POLE (SFL-1/F1) (RELAY SFR-1/C1)
				2.35				2.35					3	20	14	
	15			2.35					2.35							
				2.35					2.35						16	
	17			2.35					2.35							
				2.35					2.35						18	
WEST SOCCER FIELD PARKING LOT LIGHTS (RELAY SFR-7)	19	2	20	1.00				1.00								
													1	20	20	SPARE
	21			1.00					1.00							
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
													1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
SPACE	31	1														
				0.24	0.72	2.00	2.96						3	70	32	30 kVA XFMR (PANEL "SFL1")
SPACE	33	1														
				0.07	0.54	2.00		2.61							34	
SPACE	35	1														
					2.40	2.00			4.40						36	
SPACE	37	1														
													1		38	SPACE
SPACE	39	1														
													1		40	SPACE
SPACE	41	1														
													1		42	SPACE
TOTAL CONNECTED LOAD (kVA)				31.51	3.66	6.00	14.36	13.01	13.80							
TOTAL DEMAND LOAD (kVA)				31.51	3.66	6.00										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"SFL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PRESSBOX/ STORAGE LIGHTS	1	1	20	0.24			0.24									
					0.72		0.72						1	20	2	PRESSBOX RECPS
EXTERIOR LIGHTS (SFR-5), RELAYS SFR-5 CONTROL AND TIMECLOCK	3	1	20	0.07		1.00		1.07								
					0.54			0.54					1	20	4	PRESSBOX RECPS
SOUND EQUIPMENT	5	1	20		1.50				1.50							
					0.72				0.72				1	20	6	PRESSBOX RECPS
RELAYS SFR-1 THRU SFR-4	7	1	20			1.00	1.00									
													1	20	8	SPARE
SPARE	9	1	20													
					0.18			0.18					1	20	10	RECP AT SCOREBOARD
STORAGE RECPS	11	1	20		0.18				0.18							
						1.50			1.50				1	20	12	SCOREBOARD
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
ECH-3 (4 KW)	19	2	20				2.00			2.00						
													1	20	20	SPARE
SPARE	21							2.00		2.00						
													1	20	22	SPARE
SPARE	23	1	20													
						1.00			1.00				2	20	24	PTAC-1
SPARE	25	1	20													
						1.00	1.00								26	
SPARE	27	1	20													
						1.00		1.00					1	20	28	SPARE
SPARE	29	1	20													
													1	20	30	SPARE
TOTAL CONNECTED LOAD (kVA)				0.31	3.84	6.50	4.96	4.79	4.90	4.00						
TOTAL DEMAND LOAD (kVA)				0.31	3.84	6.50				4.00						

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"FBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 4X
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.
PROVIDE SUB FEED LUGS TO FEED PANEL "FBL2"

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
STORAGE ROOM LIGHTS	1	1	20	1.00				1.00								
													1	20	2	STORAGE ROOM LIGHTS
STORAGE ROOM RECPS	3	1	20		0.54			0.54								
													1	20	4	STORAGE ROOM RECPS
STORAGE ROOM RECPS	5	1	20		0.54				0.54							
													1	20	6	STORAGE ROOM RECPS
SPARE	7	1	20													
							1.13	1.13					1	20	8	MOTORIZED OVERHEAD DOOR
MOTORIZED OVERHEAD DOOR	9	1	20					1.13								
							1.13						1	20	10	MOTORIZED OVERHEAD DOOR
MOTORIZED OVERHEAD DOOR	11	1	20				1.13									
													1	20	12	RECEPTACLE AT PLAY CLOCK
FLAG POLE LIGHT (RELAY FBR-12	13	1	20													
							1.00	1.00					1	20	14	PLAY CLOCK
SPARE	15	1	20													
							1.50		1.50				1	20	16	FOOTBALL SCOREBOARD
STORAGE ROOM EXTERIOR LIGHTS AND TIMECLOCK	17	1	20	1.00					1.00							
																RELAYS FBR-1 THRU FBR-4 CONTROL
SPARE	19	1	20										1	20	18	
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPACE	23	3														
													1		26	SPACE
	27															
													1		28	SPACE
	29															
													1		30	SPACE
TOTAL CONNECTED LOAD (kVA)				3.00	2.16	7.02	4.13	4.84	3.21							
TOTAL DEMAND LOAD (kVA)				3.00	2.16	7.02										

LOWELL HIGH SCHOOL ATHLETIC FIELDS PANELBOARD SCHEDULE

MARK & TYPE
"FBL2"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.
FED FROM SUB FEED LUGS I PANEL"FBL1".

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
STORAGE ROOM LIGHTS	1	1	20	1.00			1.00									
						1.00	1.00						1	20	2	PLAY CLOCK
STORAGE ROOM RECPS	3	1	20		0.54			0.54								
						1.13		1.13					1	20	4	MOTORIZED OVERHEAD DOOR
STORAGE ROOM RECPS	5	1	20		0.54				0.54							
						1.13			1.13				1	20	6	MOTORIZED OVERHEAD DOOR
STORAGE ROOM EXTERIOR LIGHTS AND TIMECLOCK	7	1	20	1.00			1.00									
																FOOTBALL FIELD RECPS
					0.36		0.36						1	20	8	
SPARE	9	1	20													
					0.18			0.18					1	20	10	RECP AT PLAY CLOCK
SPARE	11	1	20													
													1	20	12	SPARE
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPACE	23	1	20													
													1	20	24	SPARE
SPACE	25	3														
													1		26	SPACE
	27															
													1		28	SPACE
	29															
													1		30	SPACE
TOTAL CONNECTED LOAD (kVA)				2.00	1.62	3.26	3.36	1.85	1.67							
TOTAL DEMAND LOAD (kVA)				2.00	1.62	3.26										

AD-4

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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PROJECT
23-112
DATE
08/04/23
COORDINATED BY
PCB
DRAWN BY
PCB/JVC
CHECKED BY
JPB

JOSEPH P. BRIGGS REGISTERED ND. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-4	09/15/23	ADDENDUM NO. 4

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-604

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSH1"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A115,116,117,118,119, 120,121,122,1223,124, 131,132,133,134 LIGHTS	1	1	20	2.11			2.11									
													1	20	2	A125,126,127,128,129, 130,131,135,136,137, 138 LIGHTS
	3	1	20	1.60			1.60									
A109,110,111,112,113, 114 LIGHTS	3	1	20	2.68				2.68								
				1.77				1.77					1	20	4	A-148,149,150,151,152, 153,154 LIGHTS
A101,102,103,104,105, 106,107,108 LIGHTS	5	1	20	2.00					2.00							
				1.48					1.48				1	20	6	A201,202,203,204,205, 206 LIGHTS
BUILDING SECURITY LIGHTS (RELAY NSR-1)	7	1	20	1.05			1.05									
				1.41			1.41						1	20	8	A207,208,209,210,211 LIGHTS
RELAY NSR-1 CONTROL	9	1	20													
						1.00		1.00					1	20	10	SPARE
SPARE	11	1	20										1	20	12	SPARE
SPARE	13	1	20										1	20	14	SPARE
SPARE	15	1	20										1	20	16	SPARE
SPARE	17	1	20										1	20	18	SPARE
SPARE	19	1	20										1	20	20	SPARE
SPARE	21	1	20										1	20	22	SPARE
SPARE	23	1	20										1	20	24	SPARE
AHU-NS4 (1 HP)	25	3	15			0.58	0.58									
						2.10	2.10						3	15	26	AHU-NS3 (5 HP)
	27					0.58		0.58								
						2.10		2.10							28	
	29					0.58			0.58							
						2.10			2.10						30	
TOTAL CONNECTED LOAD (kVA)				14.10		9.04	8.85	8.13	6.16							
TOTAL DEMAND LOAD (kVA)				14.10		9.04										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSH2"
TYPE: SQ D NF OR APPROVED EQUAL
277/480V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
CHILLED WATER CIRCULATING PUMPCHP-NS1 (5 HP)	1	3	20			2.10	2.10									
																CHILLED WATER CIRCULATING PUMP CHP-NS2 (5 HP)
	3					2.10		2.10								
						2.10	2.10								4	
	5					2.10			2.10							
						2.10			2.10						6	
HEATING SYSTEM CIRCULATING PUMP CP-NS1 (5 HP)	7	3	20			2.10	2.10									
																HEATING SYSTEM CIRCULATING PUMP CP-NS2 (5 HP)
	9					2.10		2.10								
						2.10	2.10								10	
	11					2.10			2.10							
						2.10			2.10						12	
AHU-NS1 (7 1/2 HP)	13	3	20			3.05	3.05									
						1.32	1.32						3	20	14	AHU-NS2 (3 HP)
	15					3.05		3.05								
						1.32		1.32							16	
	17					3.05			3.05							
						1.32			1.32						18	
SPARE	19	3	20										1	20	20	SPARE
	21															
													1	20	22	SPARE
	23															
													1	20	24	SPARE
SPARE	25	1	20													
							3.00		3.00				1	20	26	EH-NS1 (3 KW)
SPARE	27	1	20													
								3.00					1	20	28	EH-NS2 (3 KW)
SPARE	29	1	20													
									3.00				1	20	30	EH-NS3 (3 KW)
SPARE	31	1	20													
													1	20	32	SPARE
SPARE	33	1	20													
													1	20	34	SPARE
SPARE	35	1	20													
													1	20	36	SPARE
SPARE	37	1	20													
													1	20	38	SPARE
SPARE	39	1	20													
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
TOTAL CONNECTED LOAD (kVA)							38.31	15.77	15.77	15.77	9.00					
TOTAL DEMAND LOAD (kVA)							38.31				9.00					

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"2NSLDP"
TYPE: SQ D I-LINE OR APPROVED EQ
120/208V, 3 PH, 4W
600 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
PANEL "1NSL2"	1	3	200		19.80	4.40	24.20									
				0.10	10.38	6.80	17.28						3	200	2	PANEL "2NSL1"
					18.24	6.23		24.47								
					8.58	4.05		12.63								
					12.30	5.20			17.50							
					7.02	5.81			12.83							
PANEL "1NSL1"	3	3	200		4.38	7.40	11.78									
													3	200	4	SPARE
					3.96	4.40		8.36								
					4.56	3.80			8.36							
SPACE	5	3	200													
													3	200	6	SPACE
STACKED WASHER	7	3	20			2.00	2.00									
						2.00	2.00						3	20	8	STACKED WASHER
						2.00		2.00								
						2.00			2.00							
						2.00			2.00							
STACKED DRYER	9	3	20			2.00	2.00									
						2.00	2.00						3	20	10	STACKED DRYER
						2.00		2.00								
						2.00		2.00								
						2.00			2.00							
						2.00			2.00							
TOTAL CONNECTED LOAD (kVA)				0.10	89.22	72.09	61.26	53.46	46.69							
TOTAL DEMAND LOAD (kVA)				0.10	49.61	72.09										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

DESCRIPTION	CKT	P	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	MOTOR	P	TRIP	CKT	DESCRIPTION
A110,111 RECPS	1	1	20		0.72			0.72								
					0.90			0.90					1	20	2	A112,114 RECPS
A108 RECPS	3	1	20		0.72				0.72							
					0.90				0.90				1	20	4	A118 RECPS
A107 RECPS	5	1	20		0.72				0.72							
					0.90				0.90				1	20	6	A120 RECPS
A102,106 RECPS	7	1	20		0.36			0.36								
					0.54			0.54					1	20	8	A119,123,124 RECPS
A104 RECPS	9	1	20		0.72				0.72							
					1.26				1.26				1	20	10	A123 RECP (REFRIGERATOR)
A103 RECPS	11	1	20		0.72				0.72							
					1.50				1.50				1	20	12	A133 (OZONE)
A109 RECPS	13	1	20		0.36			0.36								
					1.50			1.50					1	20	14	A133 (OZONE)
A131 RECPS	15	1	20		0.36				0.36							
						0.40			0.40				1	20	16	UH-NS5
A133,134 RECPS	17	1	20		0.72				0.72							
SPARE	19	1	20										1	20	18	SPARE
SPARE	21	1	20										1	20	20	SPARE
SPARE	23	1	20										1	20	22	SPARE
SPARE	25	1	20										1	20	24	SPARE
SPARE	27	1	20										1	20	26	SPARE
SPARE	29	1	20										1	20	28	SPARE
A110 HAND DRYER	31	1	20			1.50	1.50									
						1.50	1.50						1	20	30	A117 HAND DRYER
A110 HAND DRYER	33	1	20			1.50		1.50								
						1.50		1.50					1	20	32	A117 HAND DRYER
A111 HAND DRYER	35	1	20			1.50			1.50							
						1.50			1.50				1	20	34	A115 HAND DRYER
A111 HAND DRYER	37	1	20			1.50	1.50									
						1.50	1.50						1	20	36	A115 HAND DRYER
SPARE	39	1	20													
													1	20	38	SPARE
SPARE	41	1	20													
													1	20	40	SPARE
SPARE	43	1	20			0.70	0.70									
						0.70	0.70						1	20	42	SPARE
FCU-NS13	45	1	20			0.70		0.70								
						0.70		0.70					1	20	44	FCU-NS12
FCU-NS14	47	1	20			0.70			0.70							
						0.70			0.70				1	20	46	FCU-NS4
FCU-NS15						0.70			0.70							
						0.10			0.10				1	20	48	FCU-NS2
CONNECTED LOAD (KVA)					12.90	16.00	11.78	8.76	8.36							
DEMAND LOAD (KVA)					11.45	16.00	11.26	8.45	7.75							
DEMAND AMPS							93.8	70.4	64.6							
TOTAL DEMAND KVA: 27.45																
TOTAL DEMAND AMPS: 94																

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL2" - SECTION 1
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.
TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 1 OF 2.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A152 RECP	1	1	1		0.18		0.18									
EXTERIOR RECPS	3		1		0.36			0.36								
						0.83		0.83					1	20	4	UH-NS1, CP-1 (1/6 HP), CUH-NS1
FIRE ALARM CONTROL PANEL	5	1	20			1.00			1.00							
					0.72				0.72				1	20	6	A138,148 RECPS
WATER SOFTENER	7	1	20		1.50		1.50									
					0.54		0.54						1	20	8	A149,150,152 RECPS
A127 RECP	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	DWH-1 (5 AMPS) DWH-2 (5 AMPS)
A127 RECP	11	1	20		1.50				1.50							
						0.70			0.70				1	20	12	EF-NS4 (1/8 HP) UH-NS4
A127 RECP	13	1	20		1.50		1.50									
					1.50		1.50						1	20	14	A149 HAND DRYER
A127 RECPS	15	1	20		0.90			0.90								
					1.50			1.50					1	20	16	A149 HAND DRYER
A127 RECP (WHIRLPOOL)	17	1	20		1.50				1.50							
					1.50				1.50				1	20	18	A150 HAND DRYER
A127 RECPS (WHIRLPOOL)	19	1	20		1.50		1.50									
					1.50		1.50						1	20	20	A150 HAND DRYER
A128 RECPS	21	1	20		0.90			0.90								
					1.50			1.50					1	20	22	A149 HAND DRYER
SPARE	23	1	20		1.50				1.50				1	20	24	A149 HAND DRYER
A139,140,143,145 RECPS	25	1	20		1.08		1.08									
					1.50		1.50						1	20	26	A143 HAND DRYER
A141,146 RECPS	27	1	20		1.08			1.08								
					1.50			1.50					1	20	28	A143 HAND DRYER
A142,147 RECPS	29	1	20		0.36				0.36							
						1.50			1.50				1	20	30	BLR-BS1
A139 HAND DRYER	31	1	20			1.50	1.50									
						1.50	1.50						1	20	32	BLR-NS2
A139 HAND DRYER	33	1	20			1.50		1.50								
						1.50		1.50					1	20	34	CHILLER PIPING HEAT TRACE
A143 HAND DRYER	35	1	20			1.50			1.50							
													1	20	36	SPARE
A143 HAND DRYER	37	1	20			1.50	1.50									
													1	20	38	SPARE
SPARE	39	1	20													
						0.70		0.70					1	20	40	FCU-NS11
SPARE	41	1	20													
						0.70			0.70				1	20	42	FCU-NS9
TOTAL CONNECTED LOAD (kVA)					49.34	24.33	25.40	26.17	22.10							
TOTAL DEMAND LOAD (kVA)					29.67	24.33										

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL2" - SECTION 2
TYPE NQOD
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.
TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
FCU-NS6	43	1	20			0.70	0.70									
						0.70	0.70						1	20	44	FCU-NS5
FCU-NS7	45	1	20			0.70		0.70								
						0.70		0.70					1	20	46	FCU-NS1
FCU-NS8	47	1	20			0.70			0.70							
						0.70			0.70				1	20	48	FCU-NS3
FCU-NS10	49	1	20			0.70	0.70									
													1	20	50	SPARE
SPARE	51	1	20													
													1	20	52	SPARE
SPARE	53	1	20													
													1	20	54	SPARE
SPARE	55	1	20													
													1	20	56	SPARE
SPARE	57	1	20													
													1	20	58	SPARE
SPARE	59	1	20													
													1	20	60	SPARE
SPARE	61	1	20													
													1	20	62	SPARE
SPARE	63	1	20													
													1	20	64	SPARE
SPARE	65	1	20													
													1	20	66	SPARE
SPARE	67	1	20													
													1	20	68	SPARE
SPARE	69	1	20													
													1	20	70	SPARE
SPARE	71	1	20													
													1	20	72	SPARE
SPARE	73	1	20													
													1	20	74	SPARE
SPARE	75	1	20													
													1	20	76	SPARE
SPARE	77	1	20													
													1	20	78	SPARE
SPARE	79	1	20													
							8.00		8.00				3	100	80	PANEL "1NSL3"
MS-NS1	81	2	30				1.00		1.00							
							7.50	1.00	8.50						82	
	83							1.00								
							5.22	2.00							84	

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"1NSL3"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A154 RECPS	1	1	20		1.50		1.50									
					1.50		1.50						1	20	2	A153 RECPS
A153 RECP (FREEZER)	3	1	20		1.50			1.50								
					1.50				1.50				1	20	4	A153 RECP (MICROWAVE)
A153 RECP (REFRIGERATOR)	5	1	20		1.50				1.50							
					1.50								1	20	6	A153 RECP (GRIDDLE)
A153 RECP	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A153 RECP (GRIDDLE)
A153 RECP (POP COOLER)	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	A153 RECP
A153 RECPS	11	1	20		0.72				0.72							
					1.50				1.50				1	20	12	A153 RECP (MICROWAVE)
A153 RECP (WARMER)	13	1	20		1.50		1.50									
					1.50		1.50						1	20	14	A153 RECP
SPARE	15	1	20													
					1.50			1.50					1	20	16	A153 RECP (POP COOLER)
SPARE	17	1	20													
						1.00			1.00				1	20	18	A153 CEILING FANS
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
SPARE	27	1	20													
																A153 208V RECP (POP CORN POPPER)
SPARE	29	1	20													
						1.00			1.00						30	
TOTAL CONNECTED LOAD (kVA)					21.72	3.00	9.00	8.50	7.22							
TOTAL DEMAND LOAD (kVA)					15.86	3.00										

AD-4

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE
TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2 (ENTIRE SHEET)
AD-3	09/08/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-605

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"2NSL1" - SECTION 1
TYPE: SQ D NQ OR APPROVED EQUAL
277/480V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.
TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 1 OF 2.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A202 RECPS	1				0.72		0.72									
					0.90		0.90						1	20	2	A201 RECPS
A203 RECP	3	1	20		0.18			0.18								
					0.90			0.90					1	20	4	A201 RECP
A203 RECP (ICE MAKER)	5	1	20		1.50				1.50							
					0.90				0.90				1	20	6	A201 RECP
A201 RECP (DATA EQUIPMENT)	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A201 RECP
A205 RECP (REFRIGERATOR)	9	1	20		1.50			1.50								
													1	20	10	A201 RECP
A205 RECP (PORTABLE OVEN)	11	1	20		1.50				1.50							
													1	20	12	A201 RECP
A205 RECP	13	1	20		1.50		1.50									
													1	20	14	BALCONY RECP
A205 RECP	15	1	20		1.50			1.50								
													1	20	16	BALCONY RECP
A205,206,207 RECPS	17	1	20		0.54				0.54							
													1	20	18	BALCONY RECP
A201 RECP (POP COOLER)	19	1	20		1.50		1.50									
					0.72		0.72						1	20	20	A211 RECPS
A201 RECP (POP COOLER)	21	1	20		1.50			1.50								
					1.50			1.50					1	20	22	A201 RECP
A208 RECP (WC)	23	1	20		0.18				0.18							
					1.50				1.50				1	20	24	A201 RECP
A208,210 RECPS	25	1	20		0.54		0.54									
					1.50		1.50						1	20	26	A201 RECP
ELEVATOR CAB LIGHTS	27	1	20	0.10				0.10								
					1.50			1.50					1	20	28	A201 RECP
ELEVATOR SHAFT RECP	29	1	20		0.18				0.18							
					0.72				0.72				1	20	30	A211 RECPS
A201 PROJECTION SCREEN MOTOR	31	1	20			1.12	1.12									
						1.00	1.00						1	20	32	BBR-NS2
A201 PROJECTION SCREEN MOTOR	33	1	20			1.12		1.12								
						1.00		1.00					1	20	34	BBR-NS1
EF-NS2 (1/6 HP) EF-NS3 (1/12 HP)	35	1	20			0.83			0.83							
						1.40			1.40				1	20	36	PHC-NS1 (1/4 HP) PHC-NS2 (1/4 HP)
UH-NS2 (1/8 HP) UH-NS3 (1/8 HP)	37	1	20			0.70	0.70									
						1.40	1.40						1	20	38	PHC-NS3 (1/4 HP) PHC-NS4 (1/4 HP)
EF-NS1 (1/8 HP)	39	1	20			0.35		0.35								
													1	20	40	SPARE
SPARE	41	1	20													
													1	20	42	SPARE
TOTAL CONNECTED LOAD (kVA)				0.10	25.98	16.66	17.18	12.73	12.83							
TOTAL DEMAND LOAD (kVA)				0.10	17.99	16.66										

AD-4

LOWELL HIGH SCHOOL NORTH STAR BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"2NSL1" - SECTION 2
TYPE NQOD
120/208V, 3 PH, 4W
225 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.
TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPARE	43	1	20													
													1	20	44	SPARE
SPARE	45	1	20													
													1	20	46	SPARE
SPARE	47	1	20													
													1	20	48	SPARE
SPARE	49	1	20													
													1	20	50	SPARE
SPARE	51	1	20													
													1	20	52	SPARE
SPARE	53	1	20													
													1	20	54	SPARE
SPARE	55	1	20													
													1	20	56	SPARE
SPARE	57	1	20													
													1	20	58	SPARE
SPARE	59	1	20													
													1	20	60	SPARE
SPARE	61	1	20													
													1	20	62	SPARE
SPARE	63	1	20													
													1	20	64	SPARE
SPARE	65	1	20													
													1	20	66	SPARE
SPARE	67	1	20													
													1	20	68	SPARE
SPARE	69	1	20													
													1	20	70	SPARE
EF-NS2 (1 HP)	71	3	20													
													1	20	72	SPARE
	73															
													3	20	74	EF-NS1 (1 1/2 HP)
	75															
															76	
A202 208V RECP	77	2	30				2.00		2.00							
															78	
	79						2.00	2.00								
							0.58	0.58								A201 FOLDING PARTITION MOTOR
ACCU-NS1	81	2	30				1.00		1.00							
							0.58		0.58						82	
	83						1.00		1.00							
							0.58		0.58						84	

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBH1"
TYPE: SQ D NF OR APPROVED EQ
277/480V, 3 PH, 4W
400 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUITS SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.
PANEL SHALL BE RATED FOR SERVICE ENTRANCE.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A108,109,110,111,112, 113,114 LIGHTS	1	1	20	1.03			1.03									
						1.00	1.00						1	20	2	RELAY CBR-1 AND TIMECLOCK
A101,102,103,104,105, 106,107 LIGHTS	3	1	20	1.06				1.06								
													1	20	4	SPARE
EXTERIOR LIGHTS	5	1	20	0.90					0.90							
													1	20	6	SPARE
EWH-CB6 (3 KW)	7	1	20				3.00		3.00							
							3.00		3.00				1	20	8	EH-CB7 (3 KW)
EWH-CB4 (3 KW)	9	1	20					3.00	3.00							
								3.00	3.00				1	20	10	EH-CB9 (3 KW)
EH-CB6 (3 KW)	11	1	20						3.00							
									3.00				1	20	12	EH-CB10 (3 KW)
EWH-CB3 (3 KW)	13	1	20				3.00		3.00							
							3.00		3.00				1	20	14	EH-CB8 (3 KW)
EH-CB4 (3 KW)	15	1	20					3.00	3.00							
								3.00	3.00				1	20	16	EH-WB5 (3 KW)
EWH-CB2 (3 KW)	17	1	20						3.00							
									3.00				1	20	18	EH-CB5 (3 KW)
EH-CB1 (3 KW)	19	1	20				3.00		3.00							
							3.00		3.00				1	20	20	EWH-CB1 (3 KW)
EH-CB2 (3 KW)	21	1	20					3.00	3.00							
								3.00	3.00				1	20	22	EH-WB8 (3 KW)
EH-CB3 (3 KW)	23	1	20						3.00							
									3.00				1	20	24	EH-WB7 (3 KW)
SPARE	25	1					3.00		3.00							
													1	20	26	EH-WB9 (3 KW)
SPARE	27	1														
													1	20	28	SPARE
SPARE	29	1														
													1	20	30	SPARE
SPARE	31	1														
							10.00		10.00				3	50	32	DWH-2 (30 KW)
SPARE	33	1						10.00	10.00							
															34	
SPARE	35	1							10.00	10.00						
															36	
PANEL "SLH1"	37	3	100	4.25			4.25									
					11.70		11.70						3	80	38	45 KVA XFMR (PANEL "CBL1")
	39			5.25				5.25								
				1.00	12.34	3.17		16.51							40	
	41			3.70					3.70							
					9.40	0.50			9.90						42	
TOTAL CONNECTED LOAD (kVA)				17.19	33.44	4.67	48.98	50.82	42.50	87.00						
TOTAL DEMAND LOAD (kVA)				17.19	21.72	4.67				87.00						

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
150 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A114 RECPS	1	1	20		0.72		0.72									
					0.36		0.36						1	20	2	A112,113 RECPS
A114 RECPS	3	1	20		1.08			1.08								
					0.54			0.54					1	20	4	A108,109 RECPS
A111,115 RECPS	5	1	20		0.36				0.36							
					0.54				0.54				1	20	6	A103,105 RECPS
A108 HAND DRYER	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A105 HAND DRYER
A108 HAND DRYER	9	1	20		1.50			1.50								
						0.70		0.70					1	20	10	EF-CB1 (1/4 HP)
A105 HAND DRYER	11	1	20		1.50				1.50							
						0.10			0.10				1	20	12	A114 CEILING FAN
SPARE	13	1	20													
						0.83	0.83									CP-2 (1/6 HP) CP-3 (1/12 HP)
													1	20	14	
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
PANEL "CBL2"	25	3	100		7.62			7.62								
													1	20	26	SPARE
	27				8.50	1.00		9.50								
				1.00	0.72	2.62		4.54					2	100	28	PANEL "TBL1"
	29				6.28	1.00			7.28							
					0.72	0.50			1.22						30	
TOTAL CONNECTED LOAD (kVA)				1.00	33.44	6.95	12.53	17.86	11.00							
TOTAL DEMAND LOAD (kVA)				1.00	21.72	6.95										

LOWELL HIGH SCHOOL COMMUNITY BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"CBL2"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
100 AMP MAIN LUGS
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
A101 RECPS	1	1	20		1.50		1.50									
					0.54		0.54						1	20	2	A101 RECPS
A101 RECP (GRIDDLE)	3	1	20		1.50			1.50								
					1.50			1.50					1	20	4	A101 RECP (MICROWAVE)
A101 RECP (GRIDDLE)	5	1	20		1.50				1.50							
					1.08				1.08				1	20	6	A101 RECPS
A101 RECP (MICROWAVE)	7	1	20		1.50		1.50									
					1.50		1.50						1	20	8	A101 RECP (FOOD WARMER)
A101 RECP (FOOD WARMER)	9	1	20		1.50			1.50								
					1.50			1.50					1	20	10	A101 RECP (POP COOLER)
A101 RECPS (INTERIOR TELEVISION MONITORS)	11	1	20		1.08				1.08							
					1.50				1.50				1	20	12	A101 RECP (POP COOLER)
RECPS (EXTERIOR TELEVISION MONITORS)	13	1	20		1.08		1.08									
					1.50		1.50						1	20	14	A101 RECP (UPRIGHT REFRIGERATOR)
SPARE	15	1	20													
					1.50			1.50					1	20	16	A101 RECP (UPRIGHT FREEZER)
SPARE	17	1	20													
					0.12				0.12				1	20	18	A101 CEILING FANS
SPARE	19	1	20													
													1	20	20	SPARE
SPARE	21	1	20													
													1	20	22	SPARE
SPARE	23	1	20													
													1	20	24	SPARE
SPARE	25	1	20													
													1	20	26	SPARE
RECP (TALL FOOD WARMER)	27	2	20			1.00		1.00								
					1.00			1.00					2	20	28	A101 208 VOLT RECP (POPCORN POPPER)
	29					1.00			1.00							
					1.00				1.00						30	
TOTAL CONNECTED LOAD (kVA)					22.40	2.00	7.62	9.50	7.28							
TOTAL DEMAND LOAD (kVA)					16.20	2.00										

LOWELL HIGH SCHOOL MAINTENANCE STORAGE BUILDING PANELBOARD SCHEDULE

MARK & TYPE
"MSBL1"
TYPE: SQ D NQ OR APPROVED EQUAL
120/208V, 3 PH, 4W
50 AMP MAIN BREAKER
NEMA 1
SURFACE MOUNTED

REMARKS
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-BH.

DESCRIPTION	CIR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CIR	DESCRIPTION
SPARE	1	1	20													
					0.36		0.36						1	20	2	RECPS
SPARE	3	1	20													
					0.36			0.36					1	20	4	RECPS
SPARE	5	1	20													
					0.36				0.36				1	20	6	RECPS
SPARE	7	1	20													
													1	20	8	SPARE
SPARE	9	1	20													
													1	20	10	SPARE
SPARE	11	1	20													
													1	20	12	SPARE
SPARE	13	1	20													
													1	20	14	SPARE
SPARE	15	1	20													
													1	20	16	SPARE
SPARE	17	1	20													
													1	20	18	SPARE
TOTAL CONNECTED LOAD (kVA)					1.08		0.36	0.36	0.36							
TOTAL DEMAND LOAD (kVA)					1.08											

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

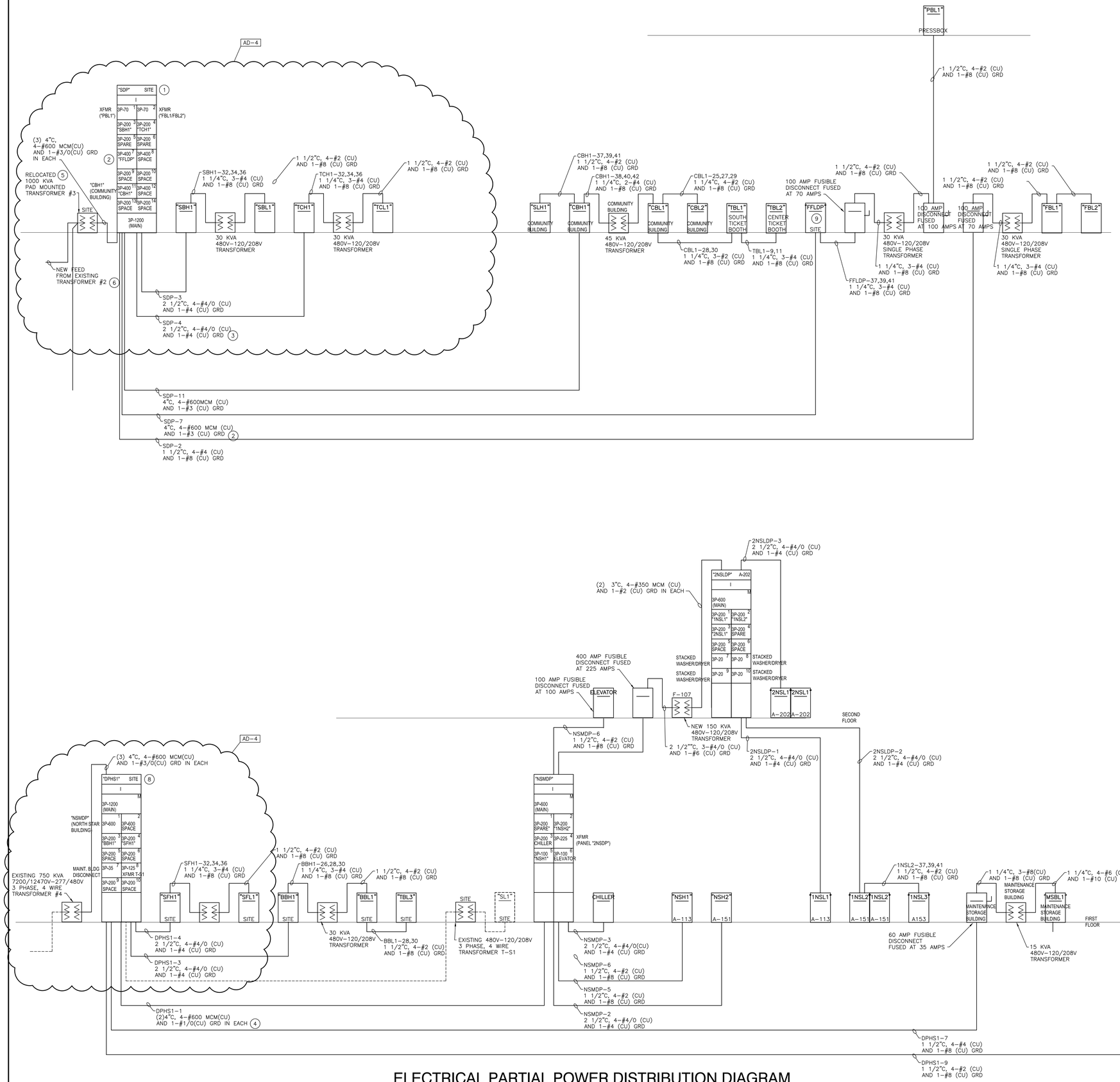
REVISIONS

MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
		(ENTIRE SHEET)
AD-3	09/08/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL SCHEDULES

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-606



ELECTRICAL PARTIAL POWER DISTRIBUTION DIAGRAM

SCALE: NOT TO SCALE

---------- EXISTING TO REMAIN

———— NEW

ELECTRICAL PLAN NOTES:

(THESE NOTES APPLY TO THIS SHEET ONLY)

1. NEW DISTRIBUTION PANEL "SDP". INTERCEPT ANY EXISTING FEEDERS SERVING EQUIPMENT, THAT REMAINS, AND EXTEND TO THE NEW DISTRIBUTION PANEL "SDP", UNLESS OTHERWISE NOTED.
2. NEW FEEDER TO NEW FOOTBALL FIELD PANEL "FFLDP".
3. NEW FEEDER TO THE TENNIS COURT LIGHTING PANEL
4. NEW FEEDER TO THE NORTH STAR BUILDING.
5. RELOCATED PAD MOUNTED TRANSFORMER #3. SEE SHEETS ES101, ES102 AND ES108.
6. SEE SHEETS ES101, ES102 ANS ES108 FOR INFORMATION ON THE FEEDER FROM EXISTING TRANSFORMER #2 TO RELOCATED TRANSFORMER #3.
7. NEW FEEDER FROM RELOCATED TRANSFORMER #3 TO EXISTING TRANSFORMER #4. SEE SHEETS ES101, ES102 AND ES108.
8. NEW DISTRIBUTION PANEL "DPHS1". INTERCEPT ANY EXISTING FEEDERS SERVING EQUIPMENT, THAT REMAINS, AND EXTEND TO THE NEW DISTRIBUTION PANEL "SDP", UNLESS OTHERWISE NOTED.
9. REPLACE EXISTING PANEL "FFLDP" WITH NEW PANEL "FFLDP". INTERCEPT EXISTING CIRCUITS SERVING LIGHTING FIXTURES, EQUIPMENT, ETC. THAT REMAIN AND EXTEND TO NEW PANEL "FFLDP".

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY PCB
DRAWN BY PCB/JVC
CHECKED BY JPB

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

REVISIONS

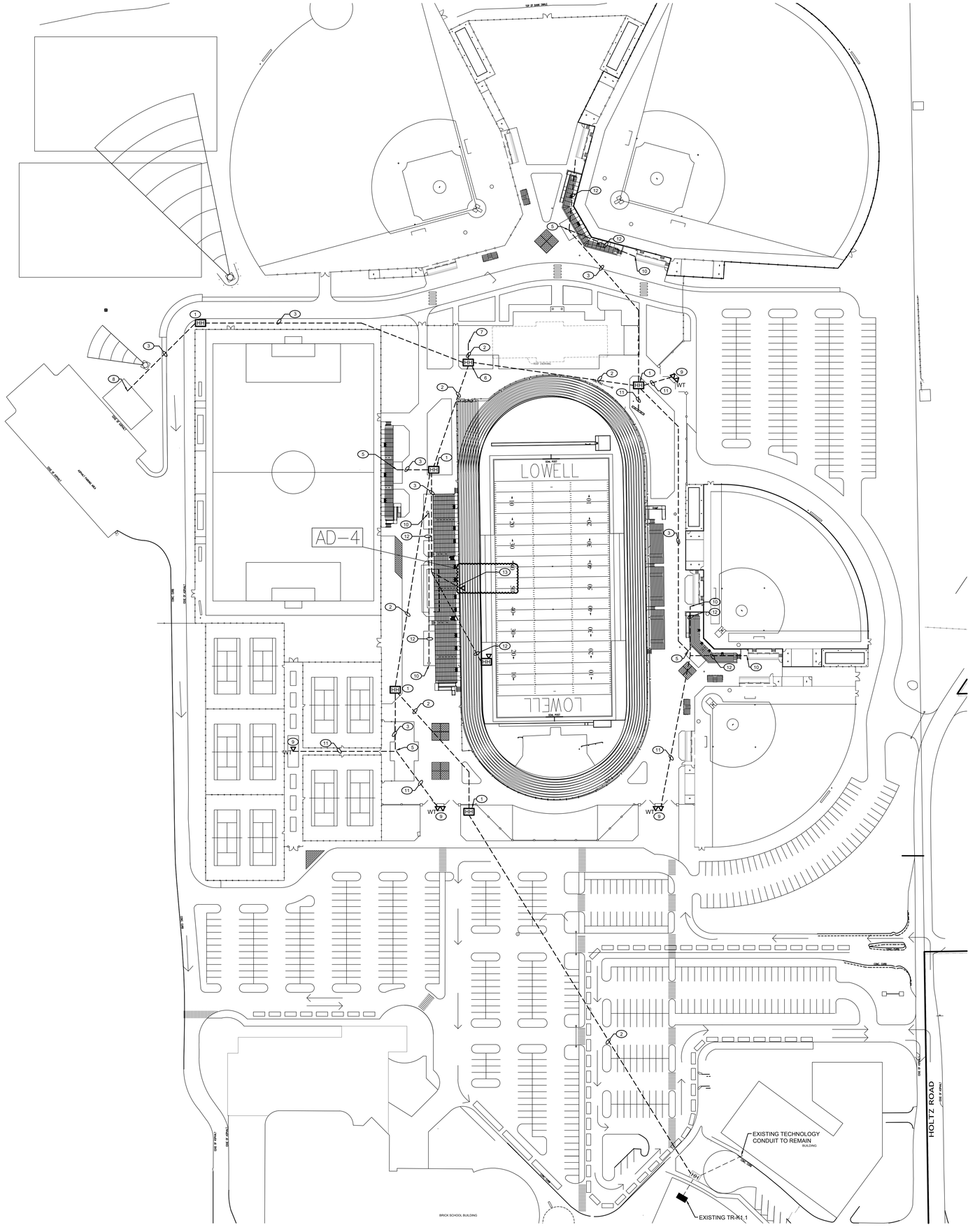
MARK	DATE	ISSUED FOR
AD-2	08/31/23	ADDENDUM NO. 2
AD-3	09/08/23	ADDENDUM NO. 3
AD-4	09/15/23	ADDENDUM NO. 4

DRAWING
ELECTRICAL PARTIAL POWER DISTRIBUTION DIAGRAM

PROJECT
LOWELL HIGH SCHOOL - SITE AND STADIUM IMPROVEMENTS

SHEET
E-702

Wednesday, 9/13/2023 - 2:43 PM - LAST SAVED BY:JCHAMBERS
Y:\23-112 TRI-CREEK SC - LOWELL HS SITE IMPROVEMENTS\2X-XXX DRAWINGS\09 ELEC\E-702.DWG



SHEET NOTES

1. NEW 3' X 3' IN-GROUND OPEN BOTTOM HAND HOLE.
2. NEW (1) 4"C.
3. NEW (1) 3"C.
4. SWEEP UP TO PRESS BOX. SECURELY ATTACH VERTICAL RUN TO STRUCTURE AND PENETRATE FLOOR AND CONTINUE TO WALL MOUNTED CABINET. SEAL ALL PENETRATIONS WEATHERTIGHT. COORDINATE EXACT REQUIREMENTS WITH PRESS BOX MANUFACTURER PRIOR TO ROUGH-IN.
5. 3" C. SWEEP UP TO PENETRATE FLOOR IN CORNER OF FIRST FLOOR AND EXTEND TO CABINET LOCATION.
6. NEW 4' X 4' IN-GROUND OPEN BOTTOM HAND HOLE.
7. 4"C. SWEEP UP TO PENETRATE FLOOR IN CORNER OF FIRST FLOOR STORAGE CLOSET AND EXTEND TO CABINET LOCATION ON SECOND FLOOR.
8. 3"C. SWEEP UP TO PENETRATE FLOOR IN CORNER OF MAINTENANCE BUILDING. CAP AND PROVIDE PULL STRING BACK TO NORTHSTAR BUILDING.
9. SWEEP UP TO SURFACE MOUNTED 12"X12"X4" MINIMUM NEMA-4X BOX AT 18" ABOVE GRADE. PENENTRATE (1) 1"C. THRUOGH THE REAR ON THE BOX TO A RECESSED OUTLET BOX.
10. SWEEP UP TO SURFACE MOUNTED 12"X12"X4" MINUMUM NEMA-4X BOX AT 18" ABOVE GRADE MOUNTED TO NEW SPORTS FIELD LIGHTING POLE FOR FUTURE SOUND EQUIPMENT.
11. NEW (1) 2"C.
12. NEW (1) 1-1/2"C.
13. NEW (1) 1-1/2"C. TO 12"X12"X4" NEMA-4X BOX AT 12" ABOVE GRADE WITH DUPLEX DATA OUTLET.

AD-4

TECHNOLOGY
SITE PLAN - OVERALL

1" = 60'-0"

AD-3

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MILLIES ENGINEERING GROUP
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www.milliesengineeringgroup.com

PROJECT

LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

TRI-CREEK SCHOOL CORPORATION

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PROJECT 23-112
DATE 08/04/23
COORDINATED BY DJ
DRAWN BY JC,AG
CHECKED BY SM

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	09/08/23	ADDENDUM NO. 03
AD-4	09/15/23	ADDENDUM NO. 04

DRAWING
TECHNOLOGY SITE PLAN - OVERALL

PROJECT
LOWELL HIGH SCHOOL SITE, BLEACHERS, & TURF/DRAINAGE

SHEET T101