

ADDENDUM NO. 2

November 30, 2023

**Armstrong Field
815 Jefferson Street
Three Rivers, MI 49093**

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 October 12, 2023, by GMB. 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 2-1 through ADD 2-1 and attached GMB Addendum No. 002 dated November 28, 2023, consisting of two (2) pages; revised Specification Sections 01 23 00 Alternates, 32 18 23.29 Infilled Synthetic Turf, and 32 18 23.39 Synthetic Running Track Surfacing; and revised Drawings A1.01, ES1.03, and ES2.03; and attached Daktronic Drawings.

A. SPECIFICATION SECTION 01 23 00 – ALTERNATES

1.04 SCHEDULE OF ALTERNATES

Add the following Alternate:

D. Alternate No. C3 – Synthetic Running Track Surfacing

B. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

Paragraph 3.03 BID CATEGORIES

A. Bid Category No. 1 – General Trades

Add the following Clarifications:

4. Where fence posts are installed in cast-in-place concrete, **Bid Category No. 01 General Trades** is to install the posts prior to concrete placement then caulk around the posts after concrete placement. Coring of cast-in-place concrete for installation of posts will not be permitted. **Category 04 Concrete** is responsible for protecting fence posts against damage to posts and post finishes during placement and finishing of concrete.
5. Specifications section 01 72 00 Field Engineering is assigned to **Bid Category No. 05 Sitework**. Contractor is to provide, install and maintain bench-mark and control points for use by all contractors for the duration of the project.
6. **Bid Category No. 01 General Trades** is to provide green construction cores and keying of all doors until final keying takes place.
7. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters.
8. **Bid Category No. 01 General Trades** is to provide and install all signage, signage components, posts, gates, and railings called out on Sheet C8.01
9. **For construction of Scoreboard structures, Bid Category No. 05 Sitework** is to provide excavation and backfill; **Bid Category No. 01 General Trades** is to provide and install structural steel work and painting of structural steel assemblies; **Bid Category No. 4** is to provide and install cast-in-place concrete and concrete reinforcement. Reference attached Daktronic Sheets B1191803-1, B1191803-2, B1191804, B1191806.

B. Bid Category No. 2 – Electrical

4. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters. All contractors to include labor costs in their bid to comply with this requirement.

C. Bid Category No. 3 – Mechanical

2. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters.

D. Bid Category No. 4 – Concrete

3. **Bid Category No. 05 Sitework** is to provide and install the perimeter trench drain. **Bid Category No. 04 Concrete** is to provide final checking, adjusting to proposed grade, and securing of trench drain in preparation for its concrete encasement. **Bid Category No. 04 Concrete** is also to provide protection of the drain, its grates, and finishes during the pouring and finishing of concrete.
4. Where fence posts are installed in cast-in-place concrete, **Bid Category No. 01 General Trades** is to install the posts prior to concrete placement then caulk around the posts after concrete placement. Coring of cast-in-place concrete for installation of posts will not be permitted. **Category 04 Concrete** is responsible for protecting fence posts against damage to posts and post finishes during placement and finishing of concrete.
5. **Bid Category No. 04 Concrete** is to provide all concrete work for field events, fixtures, and appurtenances including but not limited to: pole-vault pad, long jump pits, track radius monuments (including pipe), goal posts, 25-second clock, foundations for scoreboards.
6. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters.
7. **For construction of Scoreboard structures, Bid Category No. 05 Sitework** is to provide excavation and backfill; **Bid Category No. 01 General Trades** is to provide and install structural steel work and painting of structural steel assemblies; **Bid Category No. 4** is to provide and install cast-in-place concrete and concrete reinforcement. Reference attached Daktronic Sheets B1191803-1, B1191803-2, B1191804, B1191806.

E. Bid Category No. 5 – Sitework

5. **Bid Category No. 05 Sitework** is to provide all work associated with Specifications Sections 32 12 16 Asphalt Paving For Running Tracks; and 32 18 23.39 Synthetic Running Track Surfacing for the running track and the surfacing of the pole-vault/long-jump runways.
6. **Bid Category No. 05 Sitework** is to provide and install the perimeter trench drain. **Bid Category No. 04 Concrete** is to provide final checking, adjusting to proposed grade, and securing of trench drain in preparation for its concrete encasement. **Bid Category No. 04 Concrete** is also to provide protection of the drain, its grates and finishes during the pouring and finishing of concrete.
7. **Bid Category No. 05 Sitework** is to provide, place, maintain, and remove required protection of installed and existing items to protect from overspray during application of Synthetic Running Track Surfacing.
8. Specifications section 32 18 23.30 is assigned to **Bid Category No. 05 Sitework** in its entirety including but not limited to lower subbase aggregate/stone, top aggregate/stone layer, perforated drainage piping, geotextile, flat panel drains, underdrains, and perimeter nailer for artificial turf. **Bid Category No. 06 Artificial Turf** is to provide the final machine and hand-grading required for turf placement.

9. **Bid Category No. 05 Sitework** is to provide excavation and/or grading for installation of field fixtures and appurtenances including but not limited to: pole-vault pad, long jump pits with sand, runways, track radius monuments, goal posts, 25-second clock, and foundations for all three (3) scoreboards.
10. Specifications section 01 72 00 Field Engineering is assigned to **Bid Category No. 05 Sitework**. Contractor is to provide, install and maintain bench-mark and control points for use by all contractors for the duration of the project.
11. Sheet C2.02 calls for installation of a ball valve with quick connect coupler in secured valve box keyed spigot. The water source is the existing irrigation piping. **Bid Category No. 05 Sitework** is to provide this work (in Alt 1) and figure irrigation pipe is within 50 feet of proposed ball valve location.
12. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters.
13. **Bid Category No. 05 Sitework** is to provide and install Underground Utility Access Boxes (Drawing detail 14/C5.10).
14. **For construction of Scoreboard structures, Bid Category No. 05 Sitework** is to provide excavation and backfill; **Bid Category No. 01 General Trades** is to provide and install structural steel work and painting of structural steel assemblies; **Bid Category No. 4** is to provide and install cast-in-place concrete and concrete reinforcement. Reference attached Daktronic Sheets B1191803-1, B1191803-2, B1191804, B1191806.

F. Bid Category No. 6 – Artificial Turf

2. **Bid Category No. 05 Sitework** is to provide, place, maintain, and remove required protection of installed and existing items to protect from overspray during application of Synthetic Running Track Surfacing.
3. Specifications section 32 18 23.30 is assigned to **Bid Category No. 05 Sitework** in its entirety including but not limited to lower subbase aggregate/stone, top aggregate/stone layer, perforated drainage piping, geotextile, flat panel drains, underdrains, and perimeter nailer for artificial turf. **Bid Category No. 06 Artificial Turf** is to provide the final machine and hand-grading required for turf placement.
4. All contractors are to provide daily clean-up of the Field House and Site. This includes but is not limited to: clearing of that day's demolition debris from the building, neatly stacking of new materials, stowing, and securing of contractor tools and equipment, sweeping of work areas, breakdown of boxes, stacking of pallets, policing the building and grounds for debris, and disposal into respective waste or recycling dumpsters.

C. SPECIFICATION SECTION 00 20 00 – INFORMATION AVAILABLE TO BIDDERS

1. A Site Logistics Plain is included with this Addendum.

D. SPECIFICATION SECTION 00 31 00 – BID FORM

1. Revised Bid Form attached to this Addendum.

E. SPECIFICATIONS SECTION 01 32 00 – SCHEDULES AND REPORTS

a. 1.03 GUIDELINE SCHEDULE

Add:

1. A detailed Guideline Construction Schedule will be issued with Addendum No.2

ADDENDUM



OWNER

THREE RIVERS COMMUNITY SCHOOLS

PROJECT

ARMSTRONG FIELD

A/E Project 5-5136

PURPOSE

ADDENDUM 002

THIS ADDENDUM SHALL FORM PART OF THE BIDDING DOCUMENTS. CHANGES, ADDITIONS, CLARIFICATIONS OR DELETIONS HEREIN SUPERSEDE THE DRAWINGS AND SPECIFICATIONS. BIDDERS SHALL INCLUDE ON THE PROPOSAL FORM ACKNOWLEDGEMENT OF THE RECEIPT OF THIS ADDENDUM.

ATTACHMENTS

New Specifications: None

Reissued Specifications: 01 23 00, 32 18 23.29, 32 18 23.39

New Sheets: None

Reissued Sheets: A1.01, C2.01, ES1.03, ES2.03

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THE SKILLMAN CORPORATION

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SPECIFICATION CLARIFICATIONS / REVISIONS

ITEM NO. 1 **SECTION 01 23 00 ALTERNATES (REISSUED)**

Refer to reissued specification for addition of Alternate C3.

ITEM NO. 2 **SECTION 32 18 23.29 INFILLED SYNTHETIC TURF (REISSUED)**

- A. Refer to reissued specification for information related to infill.
- B. Clarified Alternate for on-going maintenance information.

ITEM NO. 3 **SECTION 32 18 23.39 SYNTHETIC RUNNING TRACK SURFACING (REISSUED)**

Refer to reissued specification for information related to polyurethane track surfacing.

SHEET CLARIFICATIONS / REVISIONS

ITEM NO. 4 **SHEET A1.01 – FIELDHOUSE DEMOLITION PLAN & FLOOR PLAN (REISSUED)**

Revised extents of floor cutting and slab removal on the Demolition Plan as shown clouded.

ITEM NO. 5 **SHEET C2.01 – STADIUM SITE PLAN (REISSUED)**

Refer to plan for addition of aggregate, signage notation, and fencing updates.

ITEM NO. 6 **SHEET ES1.03 - SOFTBALL ELECTRICAL DEMOLITION PLAN (REISSUED)**

Refer to plan for the full disconnection and removal of the softball field scoreboard electrical feed.

ITEM NO. 7 **SHEET ES2.03 - SOFTBALL SITE ELECTRICAL PLAN (REISSUED)**

Refer to plan for the addition of a new underground electrical feed to the new softball scoreboard.

SECTION 01 23 00 – ALTERNATES
(ADDENDUM 002)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Work Included: To enable the Owner to compare total costs where alternate areas, materials, and methods might be used, Alternates have been established as described on the Drawings and in this Section of these Specifications.
- B. Related Work Described Elsewhere:
 - 1. Materials and methods to be used in the Base Bid and in the Alternates have been described on the Drawings and in pertinent sections of these Specifications.
 - 2. Method for stating the proposed Contract Sum is described in the Bid Form.

1.3 DEFINITIONS

- A. The Base Bid for the project shall, in general, include all of the work necessary to complete, as per Drawings and Specifications, the site and building work. Alternate Bid prices shall also be based on complete areas and systems following all requirements of the Drawings and Specifications for all site and building work.
- B. Alternates shall be included in the Work only if enumerated in the Agreement.
- C. Alternates are additive or deductive from the Contract Sum as described herein.

1.4 SUBMITTALS

- A. All Alternates described in this Section are required to be reflected in the appropriate section on the Bid Form as submitted by bidders.

1.5 PROCEDURE

- A. If the Owner elects to proceed on the basis of one or more of the described Alternates, make all modifications to the Work required in furnishing and installing the selected Alternate or Alternates to the approval of the Architect/Engineer and at no additional cost to the Owner, other than as proposed on the Bid Form.
- B. Coordinate, revised, or adjust affected adjacent work as necessary to completely integrate alternate work into the Project.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES:

- A. ALTERNATE NO. G1: Provide all costs to provide turf maintenance annually. Cost shall be “per year” and should encompass all elements of year maintenance, including but not limited to, turf grooming, sanitation, infill monitoring and refill as required, fixing turf wear and addressing any visible issues to the turf surface.
- B. ALTERNATE NO. C1: All work associated with the baseball scope of work.
- C. ALTERNATE NO. C2: All work associated with the softball scope of work.
- D. ALTERNATE NO. C3: All work associated with installing a polyurethane track in lieu of latex.

END OF SECTION

SECTION 32 18 23.29 - INFILLED SYNTHETIC TURF
(ADDENDUM 002)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes labor, equipment, materials, and related work for the installation of all synthetic turf materials as shown on the plans, including all installation of wood nailer edge required
- B. Related Sections:
 - 1. Section 31 20 00: Grading, Excavation and Fill
 - 2. Section 32 18 23.30: Infilled Synthetic Turf Subbase

1.3 REFERENCE STANDARDS

- A. FM P7825 - Approval Guide; Factory Mutual Research Corporation; current edition
- B. ASTM Standard Test Methods:
 - 1. D1577 - Standard Test Method for Linear Density of Textile Fiber
 - 2. D5848 - Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering
 - 3. D418 - Standard Test Method for Testing Pile Yarn Floor Covering Construction
 - 4. D1338 - Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
 - 5. D1682 - Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
 - 6. D5034 - Standard Test Method of Breaking Strength and Elongation of Textile Fabrics (Grab Test)
 - 7. F1015 - Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
 - 8. D4491 - Standard Test Methods for Water Permeability of Geotextiles by Permittivity
 - 9. D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
 - 10. F355 - Standard Test Method for Shock-Absorbing Properties of Playing Surfaces
 - 11. F1936 - Standard Test Method for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured in the Field
 - 12. D1557 - Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort
- C. High School Rules for Field of Play, latest edition. See Rule 1 (The Field of Play) for clarifications
- D. NFHS Court and Field Diagram, latest edition.

1.4 COORDINATION

- A. Coordinate all work with job site superintendent and all applicable trades.

1.5 SUBMITTALS

- A. Bid package shall include the following information to aid in the review process:
 - 1. Sample of turf product (not filled) of all colors required, including backing with complete fiber characteristics; 8" x 8" square (minimum)
 - 2. Fiber characteristics

3. Primary and secondary backing characteristics
 4. Tuft characteristics
 5. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows:
 - a. Pile Height, Face Width & Total Fabric Weight, ASTM D418 or D5848
 - b. Primary & Secondary Backing Weights, ASTM D418 or D5848
 - c. Tuft Bind, ASTM D1335
 - d. Grab Tear Strength, ASTM D1682 or D5034
 - e. Pill Burn Test ASTM D2859
 6. Suggested sub-base composition required, including sieve requirements, for each layer
 7. Proposed Infill composition, including pounds of sand and pounds of rubber per square foot
 8. List of last ten (10) installations including: Owner, Owner's Representative, and phone number
 9. Resume of installation crew who will be present on the site including, foreman, and crew experience from last season. List of past projects and contract information for each installation is highly encouraged
 10. History and financial standing of company including: a current audited company financial statement
 11. Proposed Method of seaming panels and miscellaneous lines, logos
 12. Bonding capacity per project and aggregate bonding line
 13. The turf contractor, and Turf manufacturer (if different), shall provide written documentation that patents are not being violated, and also include all patent that may be pending
 14. Warranty: Provide a copy of a third party guarantee policy for review
 15. Description of maintenance training with Owner's representatives
 16. Clear explanation of equipment included in Base Bid package. Provide photos of equipment and description / use of unit.
- B. Shop Drawing Submittals: Prior to ordering of materials the Contractor shall submit Shop Drawings indicating:
1. All relevant product literature
 2. To scale, full color field layout, field marking plan and detail drawings as required for project.
 3. Roll/Seaming Layout
 4. Methods of attachment, field openings and perimeter edge conditions.
 5. Maintenance equipment.
- C. Contract Closeout Submittals: Provide Owner with the following
1. Maintenance manuals (2)
 2. Maintenance log book
 3. Testing schedule
 4. Project record documents: including as-built's of actual seam locations, drains, etc..
 5. Stock Materials:
 - a. 500 pounds of specified infill material (minimum)

- b. Turf fabric in Green, 450 sq. ft. (minimum). Note two (2) pieces shall be 15' x 10' minimum
 - c. Color Turf to match all colors used; 150 sq .ft. for each color used (minimum).
 - d. 100 lf of 4" for inlaid line striping (White)
 - e. Seaming thread (1000 lf)
6. Warranty Literature – submit manufacturer's warranty with completed forms in Owner's name and register with manufacturer

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section.
 - 1. The Turf Contractor must provide competent workmen skilled in this specific type of synthetic turf installation.
 - 2. The Manufacturer shall have a representative on site to certify the installation and Warranty compliance.
- B. Qualifications of Workmen: Provide qualified, factory trained supervisor with experience in infill installations.
 - 1. The designated Supervisory Personnel on the project must be certified, in writing by the turf Manufacturer, as competent in the installation of this material
 - 2. This person(s) shall be on site at all times during installation
 - 3. This person shall direct all work under this section
 - a. All workers under his/her supervision shall be thoroughly trained and experienced in infill installations.
 - 4. This person shall have installed a minimum of 8 fields of 65,000 sq. ft or more in the United States in the past two years with the same manufacturer, product and company.
- C. Prior to the beginning of installation:
 - 1. The Installer of the synthetic turf shall inspect the sub-base and accept in writing the sub-base surface planarity and compaction.
 - 2. The Installer shall have the dimensions of the field and locations for markings measured by a registered surveyor to verify conformity to the specifications and applicable standards.
 - 3. A record of the finished field as-built measurements shall be made.
- D. The Turf Contractor shall provide the necessary testing data to the owner that the finished field meets the required shock attenuation (G-max), as per ASTM F1936-10.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Properly store all materials in accordance with manufacturer's recommendations
 - 1. All product shall be received on site by contractor
 - 2. All materials shall be stored in location directed by Construction Manager and acceptable to installer
- B. At time of delivery, lot numbers for each carpet roll shall be given to Construction Manager to validate carpet supplied. Construction Manager shall provide lot numbers as part of close-out documentation.

1.8 FIELD CONDITIONS

- A. Preliminary Investigations:
 - 1. The contractor shall visit the site and make his own interpretation of conditions, based on his investigation of existing conditions and on soil conditions.

2. Compacted base will be provided to Turf Contractor by Excavation Contractor, and will be resurveyed prior to rug installation.
 - a. Subbase will be compacted to 95% density
 - b. A survey will be performed on subgrade base at a grid of 10'-0" o.c. for review
 - c. Concerns regarding this information or site review period shall be brought to the attention of the Architect / Construction Manager. Work on base shall not begin until all issues have been corrected/ resolved. Refer to preparation section of this specification for additional information on compaction.

1.9 WARRANTY

- A. Successful contract shall submit eight (8) year warranty (8 year period shall begin at date of substantial completion) that shall cover the following:
 1. Materials
 - a. General wear and damage caused from UV degradation
 - b. The warranty shall specifically exclude vandalism, and acts of God beyond the control of the owner or the manufacturer.
 2. Workmanship
 - a. Cover defects in the installation workmanship
 - b. The turf manufacturer must verify that their on-site representatives have inspected the installation and that the work conforms to the manufacturer's requirements.
 - c. Proper play characteristics (playability).
 3. Replacement
 - a. All turf warranties shall be non-prorated.
 - b. Provisions to replace or repair surface that is unplayable / defective at the option of the Manufacturer, and shall include all necessary materials, labor, transportation costs, etc. to complete said repairs
 - c. All warranties are contingent on the full payment by the Owner of all pertinent invoices.
 4. Insurance - The turf Manufacturer's Warranty must be supported by a third party guarantee for the full eight (8) year period
 5. During the eight (8) year warranty period, the field / turf shall maintain a G-Max test between 135-170.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Approved manufacturers for bidding purposes are as follows:
 1. AstroTurf, Dalton, GA
 2. FieldTurf International Inc., Dalton, GA
 3. A-Turf, Williamsville, NY
 4. AstroTurf, Dalton, GA
 5. Sprinturf, Mt. Pleasant, SC
 6. Shaw, Calhoun, GA
- B. Note: Additional evaluation of each product will be reviewed by the Owner after bids are taken. The Owner reserves the right to award to the Contractor based on factors other than low bid.

2.2 POROUS STONE SUBBASE

- A. Refer to Section 32 18 23.30: Infilled Synthetic Turf Subbase.

2.3 TURF TECHNICAL CHARACTERISTICS

- A. The component materials of the artificial grass field turf System consist of:
1. Carpet made of 50% polyethylene parallel long slit fiber with 50% monofilament, tufted into a primary backing with a secondary backing.
 2. Infill materials as described herein.
 3. Misc. Materials: Glue, thread, seaming fabric and other materials used to install and mark the artificial turf field
- B. Carpet shall meet the following criteria:
1. Fiber Denier:
 - a. Polyethelene Monofilament: 10,800
 - b. Polyethelene Slit Film: 8,000
 2. Pile Height: 2" nominal
 3. Pile Wieght:40-45 oz/sq yd
 4. Tuft Bind: 7-8.6 lbs without infill, 10.5-12 with infill.
 5. Grab Tear (width): 180-207 lbs/force
 6. Grab Tear (length): 297 lbs/force
 7. Relative Abrasiveness Index: 20.2
 8. Permeability: >30 inches/hour
 9. Flammability (Pill Burn): Pass
 10. Impact Attenuation, G-Max: <135 at installation, <175 Over Life of Field
 11. UV Protection: Fiber Imbedded
 12. Yarn Thickness: 100 microns
 13. Primary Backing: TenCate XK Tuftback or equal
 - a. Primary Backing Weight 8 oz/sq yd
 - b. Secondary Coating Weight: 20 oz/sq yd
 14. Stitch Rate: 9/3"
 15. Tuft Gauge: 3/8"
 16. Construction: Broadloom Tufted
- C. Carpet Size:
1. Carpet shall be furnished in 15' wide rolls. The perimeter white line shall be tufted into the individual sideline rolls.
 2. Rolls shall be long enough to go from sideline to sideline without splicing. Head seams, other than at sidelines, will not be acceptable.
- D. Carpet Backing:
1. Primary backing shall be a multi-layered polypropylene fabric treated with UV inhibitors.
 2. The secondary backing shall consist of an application of porous, heat-activated urethane to permanently lock the fiber tufts in place.
 3. Perforations in packing shall occur at no less than 4" o.c.

2.4 INFILL

- A. Install cryogenic rubber or ambient SBR rubber crumbs with uniform sized (see additives information below) silica sand. Install infill to a depth of ~~1-7/8"~~ 1-3/4". Installation method shall follow proper procedures outlined by specific manufacturer. Please note that bidders are encouraged to supply separate pricing for different quantities of sand and rubber. (Minimum weight per square foot shall be ~~7.0-5.5 lbs.~~ for all products.)
- B. Rubber shall meet ASTM E-11.
- C. Silica sand shall meet requirements of US Sieve 20 to 40.

2.5 TURF COLORS AND GRAPHICS

- A. Refer to plans for the graphic intent of field.
- B. Field of play: Subtle, Alternating Lt/Dk Green panels as shown on drawings.
 - 1. "DARK GREEN" shall be a solid, singular green color (basis of design is Field Green).
 - 2. "LIGHT GREEN" shall be a 75/25 color mix of Field Green and Lime Green (100% slit film fiber to be Field Green, 50% monofilament to be Field Green, 50% monofilament to be Lime Green) to create a subtle, lighter green.
 - 3. Center of field will be two Panels of "DARK GREEN" (45YL to 45 YL), and then the panels will alternate A/B every ten (10) yards until the end zone.
- C. End Zone field should be "Purple".
- D. Outer field should be "DARK GREEN".
- E. Three Rivers "Power Cat" Center Logo: Purple and White, as shown on plans.
- F. End Zone text:
 - 1. North Endzone: "THREE RIVERS": White letters.
 - 2. South Endzone: "WILDCATS": White letters.
 - 3. Font to match plans.
- G. Football Numbers shall be White.
 - 1. Font to be custom lettering as shown on plans.
- H. Football Field marking lines shall be White.
- I. Soccer marking lines shall be Gray.
- J. Sidelines: 12" White border with Purple surround, as shown on plans.

2.6 SHOCK PAD

- A. Brock SP14
- B. Schmitz Ecosport 16mm
- C. Other pads will be considered and are highly encouraged; provide options for Owner review in Voluntary Alternate section of the Proposal Form.

2.7 MISC. MATERIALS

- A. All game lines shall be permanently tufted or "cut-in" unless approved by Architect.
- B. Thread for sewing seams of turf shall be as recommended by the synthetic turf Manufacturer.
- C. Turf Groomer:
 - 1. The field groomer shall be Greens Groomer #920SDE.
 - 2. Groomer shall include a towing mechanism compatible with a field utility vehicle.
 - 3. Groomer attachments shall include:
 - a. Magnet

- D. Bids on alternate turf types and equipment are strongly encouraged.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Familiarization: Prior to all work become thoroughly familiar with the site, the site conditions, and all portions of the work falling within this section.

3.2 PREPARATION

- A. Review / Test / Inspections:
1. The surface to receive the synthetic turf shall be inspected by the Installer, and prior to the beginning of installation, the Installer must accept in writing based on the following criteria:
 - a. Sub-base surface planarity
 - b. Sub-base compaction
 - c. The surface must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.
 - d. After subgrade work has been completed and accepted by all parties involved, continue to execute work required
 2. Supervisor shall review and inspect all products which will be installed under his contract thoroughly before beginning work.
 - a. Supervisor shall review quantities sent, quality of materials, ratios required
 - b. Coordinate all scheduling with job site superintendent

3.3 INSTALLATION

- A. The installation shall be performed in full compliance with approved Shop Drawings.
- B. Only trained technicians, skilled in the installation of athletic caliber synthetic turf systems working under the direct supervision of the approved installer supervisors, shall undertake any cutting, sewing, gluing, shearing, topdressing or brushing operations.
- C. The designated Supervisory personnel on the project must be certified, in writing by the turf Manufacturer, as competent in the installation of this material, including sewing seams and proper installation of the Infill mixture.
- D. All designs, markings, layouts, and materials shall conform to all currently applicable High School Soccer Rules, rules and other standards that may apply to this type of synthetic grass installation.
- E. Turf Installation:
1. Install in accordance with Manufacturer's instructions. The Turf Contractor shall strictly adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the Manufacturer's onsite representative, and submitted to the Architect/Owner, verifying that the changes do not in any way affect the warranty. Infill materials shall be approved by the Manufacturer and installed in accordance with the Manufacturer's standard procedures.
 2. The carpet rolls are to be installed directly over the properly prepared aggregate base. Extreme care should be taken to avoid disturbing the aggregate base, both in regard to compaction and planarity. It is suggested that a 2-5 ton static roller is on site and available to repair and properly compact any disturbed areas of the aggregate base
 3. The full width rolls shall be laid out across the field. When all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field turf. All work shall begin at the "50 yard" line or center of field.

4. All seams shall be flat, tight with no separation or fraying. Submit seaming procedures / information to Architect for review. Install all lines, marking logos per manufacturer's requirements and as shown on documents. Seams that appear separated shall be corrected immediately.
5. Utilizing standard state of the art sewing procedures each roll shall be sewn to the next. Gluing of rolls will not be acceptable. All seams shall be sewn using non-rot nylon thread (per the manufacturer's standard procedures). Seams shall be flat, tight, and permanent with no separation or fraying.
6. Minimum gluing will only be permitted to repair minor problem areas, corner completions, and to cut in any logos, text or inlaid lines as required by the specifications. The infill material shall be installed to a depth determined by these specifications, with specified ratios / percentages.
7. The Infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional. The infill installation consists of a homogenous mixture of the sand and processed rubber. The Infill shall be installed to the depth of 1 3/4" so that there is a void of 3/4" to the top of the fibers. Infill density shall consist of no more than 7 pounds of sand and at least 3 pounds of rubber per square foot. Note: Fill percentages different than those listed above may be considered, but shall be clearly noted, including all cost associated with modification and location of installation performed with this percentage.
8. Synthetic turf shall be attached to the perimeter edge detail in accordance with the Manufacturer's standard procedures and as outlined in the documents.
9. Contractor shall utilize magnetic bar to remove metal objects within field prior to infill and after infill.
10. Refill / Review: After a period of 6 months, contractor shall come back to the site and review turf for any problems or concerns. All problem areas shall be corrected immediately on site. Contractor shall refill with rubber and sand granules to original depth and brush field. Coordinate timing / schedule of work with Owner. Proper infill height shall be maintained throughout the warranty period.

3.4 CLEANING

- A. Contractor shall be responsible for clean up on a daily basis of all materials utilized. At completion of installation, all surrounding areas, as well as turf, shall be clean and in "ready to play" or "game" condition.
- B. All remnants of turf of desirable size shall become property of the Owner.

3.5 MAINTENANCE

- A. Contractor shall train Owner's personnel in necessary maintenance and preventative maintenance of the synthetic turf system, including brushing, refilling, cleaning, aeration, inspection, and other pertinent information required for proper care and in concurrence with the eight (8) year warranty requirements.
- B. Contractor shall provide groomer equipment to the Owner. Groomer shall be a towed unit. Provide information on equipment in Bid Package and Shop Drawings.

3.6 ALTERNATE G1 – ON-GOING ANNUAL MAINTENANCE PROGRAM

- A. Inspection of the field to assess the condition of turf and infill and identify any problem areas.
- B. Multi-Level Field Vacuuming of the entire field, using the SMG Sport Champ, to perform extensive cleaning across the entire playing surface. This process is designed to pull debris and other unwanted material out of the top layer of infill.
- C. Multi-Level De-Compaction of the infill with the SMG Sport Champ to help assure safe playability and improve G-MAX performance.

- D. Extensive Grooming using the SMG Sport Champ to help lift fibers and level out the infill depth across the entire playing surface.
- E. Magnetic Metal Collecting to remove foreign objects (ferrous materials) that can cause unsafe conditions.
- F. Disinfectant Application of approved antimicrobial disinfectant to comply with your warranty.
- G. Review Maintenance Procedures to be performed by owner's personnel and make recommendations.
- H. Owner Sign Off will be obtained to ensure the owner is pleased with all the work performed during their maintenance care package.

END OF SECTION

SECTION 32 18 23.39 - SYNTHETIC RUNNING TRACK SURFACING
(ADDENDUM 002)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes: This section describes labor, equipment, materials, and related work for a Track Surfacing System at track and field event areas.
- B. Related Sections:
 - 1. Section 31 20 00: Grading, Excavation and Fill
 - 2. Section 32 11 23: Aggregate Base Course
 - 3. Section 32 12 16: Asphalt Paving

1.3 COORDINATION

- A. Coordinate all work with job site superintendent and all applicable trades.

1.4 SUBMITTALS

- A. Product Data, Shop Drawings, Samples:
 - 1. Certificates: Certify that materials comply with specification requirements.
 - 2. Submit physical color samples of lane markings and track surfacing.
- B. Acceptance Letter: Track Surfacing Contractor shall review and approve the pavement mix and subbase materials. Contractor shall provide a letter stating the following (1) the asphalt mix design and subbase materials have been reviewed and are compliant with the track surfacing materials and (2) must indicate the required asphalt cure time before surfacing can be placed. If the acceptance letter is not provided prior to work commencing, it is assumed that all the requirements above have been reviewed and are compliant with their product requirements.
- C. Design Data, Test Reports, Certificates, Manufacturer's Instructions, Manufacturer's Field Reports
- D. Project Record Documents, Operation and Maintenance Data, Warranty.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Provide at least one person who shall be thoroughly trained and experienced in the skills required, who shall be completely familiar with the design and application of work described for this section, and who shall be present at all times during progress of the work of this section and shall direct all work performed under this section.
 - 2. For actual finishing of asphaltic concrete surfaces, and operation of the required equipment, use only personnel who are thoroughly trained and experienced in the skills required.
 - 3. Contractors that can provide an American Sports Builder Association (ASBA) Certified Track Builder (CTB) staff member to oversee construction will be preferred for the project.
- B. Regulatory Requirements & References: In addition to complying with all pertinent codes and regulations, comply with the referenced portions of "Standard Specifications" of the State of Michigan, Department of Transportation.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protection: Use all means necessary to protect the materials of this Section before, during and after installation and to protect the work and materials of all other trades.

- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

1.7 WARRANTY

- A. Provide minimum five (5) year warranty against defects for materials and installation, unless otherwise indicated.

PART 2 - PRODUCTS

2.1 LATEX SYSTEMS

- A. Manufacturers
1. Seal Flex
 2. Omnova Solutions Inc.
 3. Sportmaster
 4. Voluntary alternates may be considered for other surfaces submitted.
 5. Others seeking approval shall see General Conditions.
- B. Materials
1. Track surface using LR-8 (8 coats asphalt primer, 8 coats latex) for a minimum 1/2" minimum thickness.
- C. Aggregate
1. Rubber aggregate to base rubber course shall be properly ground and graded to a minus 1/4 inch to a plus 16 mesh gradation. Rubber aggregate for surface rubber course shall be properly ground and graded to a minus 8 mesh to a plus 16 mesh gradation.
- D. Asphalt Binder
1. Asphalt emulsion binder for surface binding and bonding function shall be a slow setting emulsified asphalt which shall comply with Specification M208-72 of the American Association of State Highway and Transportation Officials, test methods prescribed in ASSHTO T-59.
- E. Binding
1. Latex compound for binding function shall be in strict conformance with formulae and specifications as prescribed.

2.2 ALTERNATE C3: POLYURETHANE SYSTEMS

- A. Manufacturers
1. APT - Rekortan
 2. Conica – Coniper SP
 3. Stockmeyer – Stobitan SP
 4. Voluntary alternates may be considered for other surfaces submitted.
 5. Others seeking approval shall see General Conditions.
- B. Materials
1. Permeable Polyurethane Base Mat Structural Spray Track Surface at 1/2" (12.7mm) thickness.
 - a. Base Mat to be 100% Styrene Butadiene Rubber (SBR) granules and polyurethane binders spread in a single layer. The base mat rubber shall be properly ground and graded to minus 1/4 inch to a plus 16 gradation and is to be dried to no less than 2.5% moisture and sealed in bags.
 - b. Structural Spray to be a single component structural spray with 100% EPDM rubber granules.

- c. Provide weights and quantities of all materials as required by the manufacturer's recommendations. No water shall be present during the mixing process and there shall be not less than 1-part binder to 5 parts rubber as determined by weight of the products.

2. Voluntary alternates may be considered for other surfaces submitted.

3. Others seeking approval shall see General Conditions.

C. Aggregate

1. SBR Rubber granules should be cubicle, sharp cut particles with a Specific gravity ranging from 1.15 to 1.40

2. Colored EPDM granules should be cubicle sharp cut particles made from virgin material and have a specific gravity between 1.40 and 1.60 with a hardness (shore A0 between 55-70).

2.3 TRACK COLOR

- A. Track color shall be selected from the manufacturers standard color palette as selected by the architect.

2.4 LINE MARKING PAINT

- A. The line paint material shall be Water Base Acrylic Latex compatible with rubber and herein before specified latex material.
- B. Lines shall be accurately placed in accordance with Engineer's plans as specified.
- C. Prior to installation, Contractor shall meet with Architect / Athletic Director to verify layout.
- D. Lines shall conform to the National Federation of State High School Associations (NFHSA), or American Sports Builders Association (ASBA) whichever is appropriate and applies.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be installed. Correct conditions detrimental to proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Protection: Protect adjacent surfaces. Mask abutting drainage system and clean after installation of product. Repair damage at no expense to Owner. Dispose of properly all drums, extra product at no expense to Owner.
- B. Cleaning: After completion of installation, clean surfaces of excess or spilled asphalt materials to the satisfaction of Architect/Engineer.
- C. Barricades: After installation, do not permit traffic on surface until it has dried and hardened. Provide barricades and warning devices as required to protect installation and the general public.

3.3 INSTALLATION

- A. Surface Inspection: Prior to the application of the synthetic track surface, the asphaltic or concrete base shall be inspected for conformity to planarity requirements. The surface shall not deviate more than 1/8 inch in 10 feet from the specified grade when checked with a 10-foot straight edge. The surface may also be flooded with water to determine if any "bird baths" or low areas exist. Any area found not to be in conformance with the above requirements shall be repaired by others and allowed to cure prior to the application of the synthetic surface with compatible materials as approved by the manufacturer.
- B. Curing: The asphalt surface shall be allowed to cure for the minimum timeframe required by the surfacing manufacturer. Contractor shall include this timeframe on letter as part of submittals, see section 1.4.D. This timetable shall be agreed upon by the Owner and the Application Contractor, based on the time of the year. This may change with the Architect's approval.

- C. Cleaning: The area to be surfaced shall be clean and free of any loose or foreign particles (dirt, oil, etc.) prior to the commencement of the work.
- D. Latex Surfacing Application:
1. The binder shall be placed in an approved mixer tank equipped with suitable pump and spray systems to provide proper pressure and spray disposition at truck surface.
 2. The base rubber aggregate shall be applied over entire surface specified to receive the rubber running surface. Upon completion of first layer, the rubber aggregate shall be sprayed with latex or asphalt emulsion with dilution and additives as formulated by the manufacturer. When thoroughly dry, rubber application and spray composition shall be repeated. Successive applications of base rubber surface shall then receive an application of surface rubber aggregate according to the specifications by the manufacturer to achieve the desired texture and spike protection. Refer to additional information below.
 - a. Primer: Carboxylated styrene butadiene latex having a minimum resin solid of 50% as a prime coat which is applied at the rate of 0.10 gallons per square yard.
 - b. Base Mat: 1/2" minimum total thickness applied in eight (8) courses as follows:
 - 1) First Course: Approximately 1 pound per square yard of coarse strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 2) Second Course: Approximately 1.2 pounds per square yard of coarse strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 3) Third Course: Approximately 1.2 pounds per square yard of coarse strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 4) Fourth Course: Approximately 1.2 pounds per square yard of medium strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 5) Fifth Course: Approximately 1.2 pounds per square yard of medium strand rubber sprayed with a latex binder at a rate of 0.1625 gallons per square yard.
 - 6) Sixth Course: Approximately 1.2 pounds per square yard of medium strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 7) Seventh Course: Approximately 1.2 pounds per square yard of medium strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - 8) Eighth Course: Approximately 2 pounds per square yard of medium strand rubber sprayed with latex binder at a rate of 0.1625 gallons per square yard.
 - c. Sheet Coat: The entire track surface shall be sprayed with latex at a rate of 0.10 gallons per square yard. All latex coverage rates are mixed 50/50 with water.
 - d. Ultraviolet Protection: In order to protect the track surface from damage by the sun, black dye shall be added to the latex for the topcoat and the sheen coat. The application rate is approximately one-part dye to 200 parts latex.

E. Polyurethane Surfacing Application:

1. Prime entire surface area with a compatible polyurethane primer. Mask and protect adjacent structures, as required. Primer shall dry to a tack-free condition, but no longer than 24 hours, for application of basemat. The consumption rate is 0.29 lbs/sy (0.16 kgs/sm).
2. Mix the binder and granules until all rubber is thoroughly coated transport onto to the track and apply using a paving machine that is specifically designed for this type of application. For an average 11 mm mat the consumption is 14.94 lbs/sy (8.11 kgs/sm) of SBR rubber and 3.52 lbs/sy (1.91 kgs/sm) binder. Apply to the specified thickness.
3. Mix the structural spray and spray rubber until thoroughly coated. The mixture should be sprayed in two separate applications. Apply the second coat, in an opposite direction as to the first. The minimum application rate is 2.16 lbs/sy (1.17 kgs/sm) for the structural spray

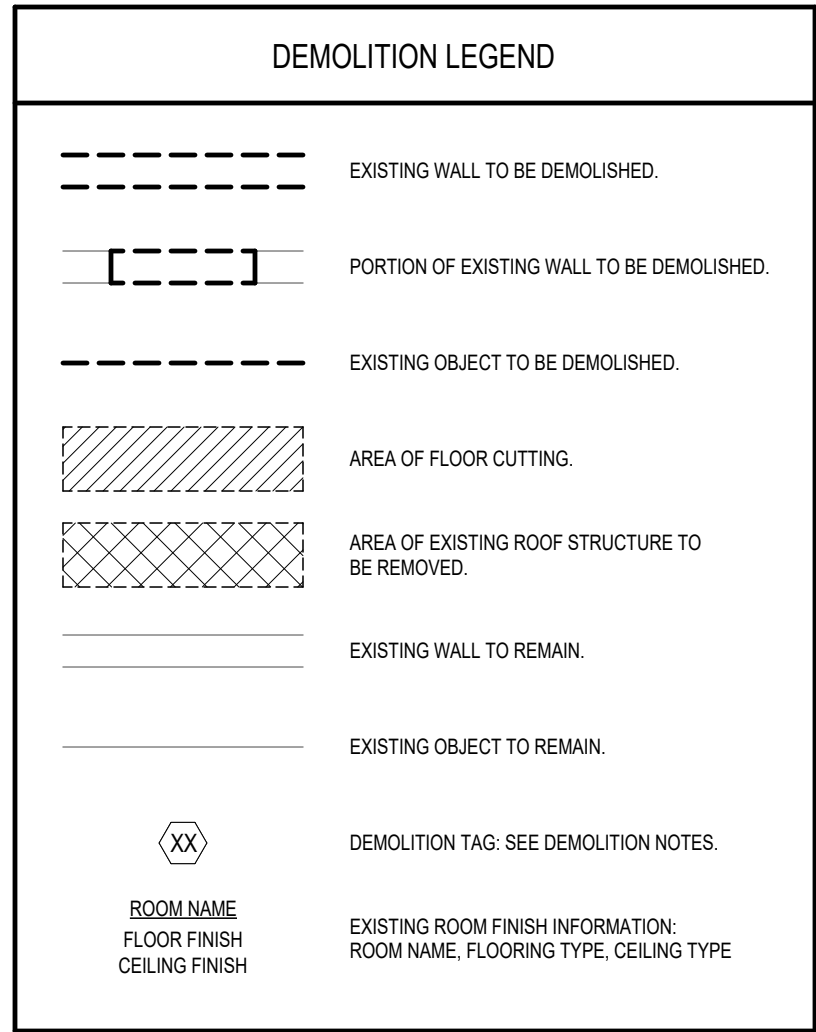
and 1.44 lbs/sy (0.78 kgs/sm) EPDM spray rubber. Apply specified amounts to achieve proper coverage.

- F. Contractor shall use all means necessary to protect fencing, trench drain, and surrounding surface from Latex (OR polyurethane if selected) and rubber materials sprayed. All clean up from overspray etc. shall be this contractor's responsibility.

3.4 GENERAL LIMITATIONS:

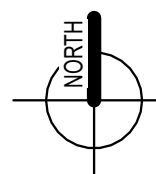
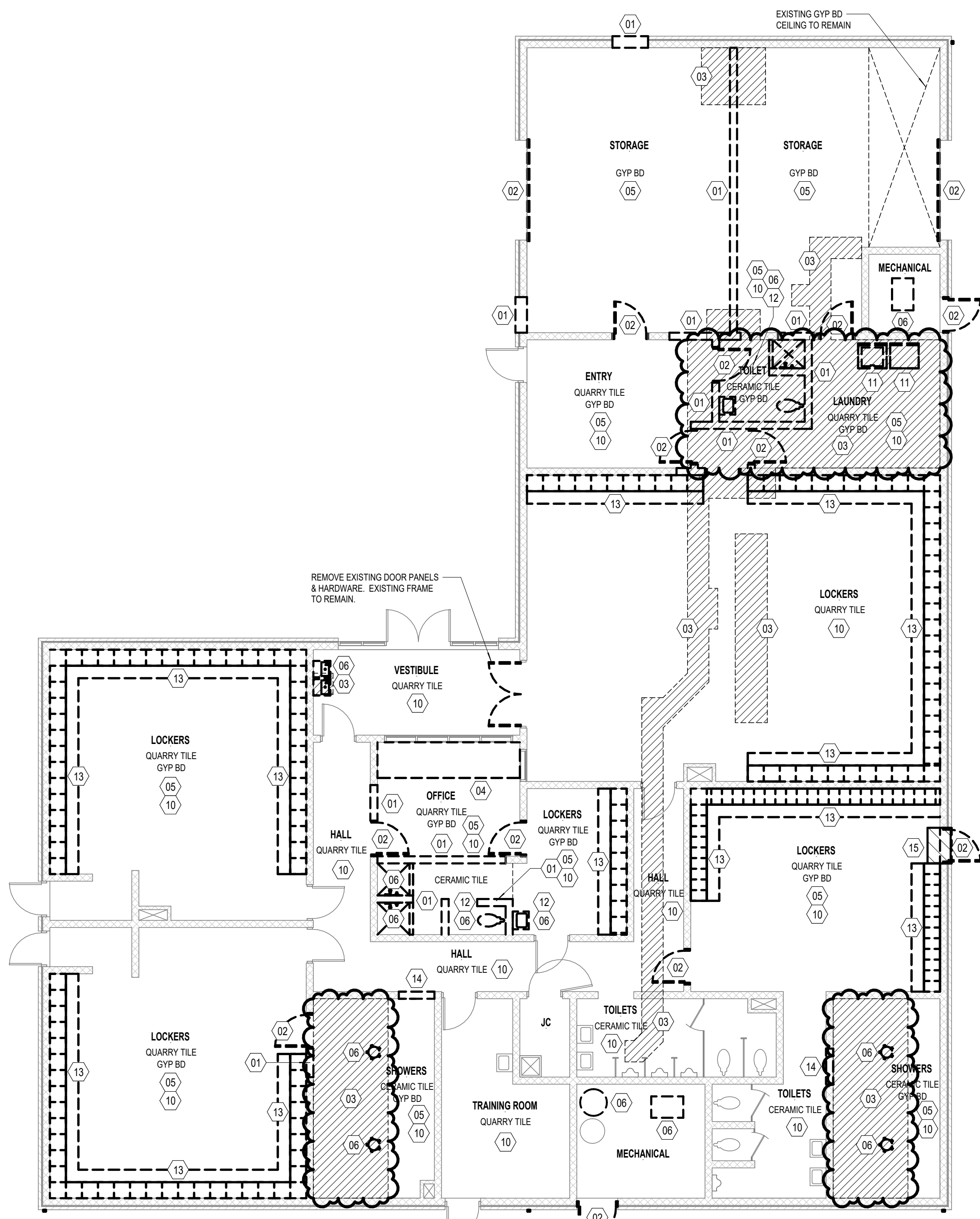
- A. No phase of this construction shall take place unless the ambient temperature is above 50 degrees Fahrenheit, nor when rain is imminent or falling, nor when other conditions are obviously unsuitable.

END OF SECTION

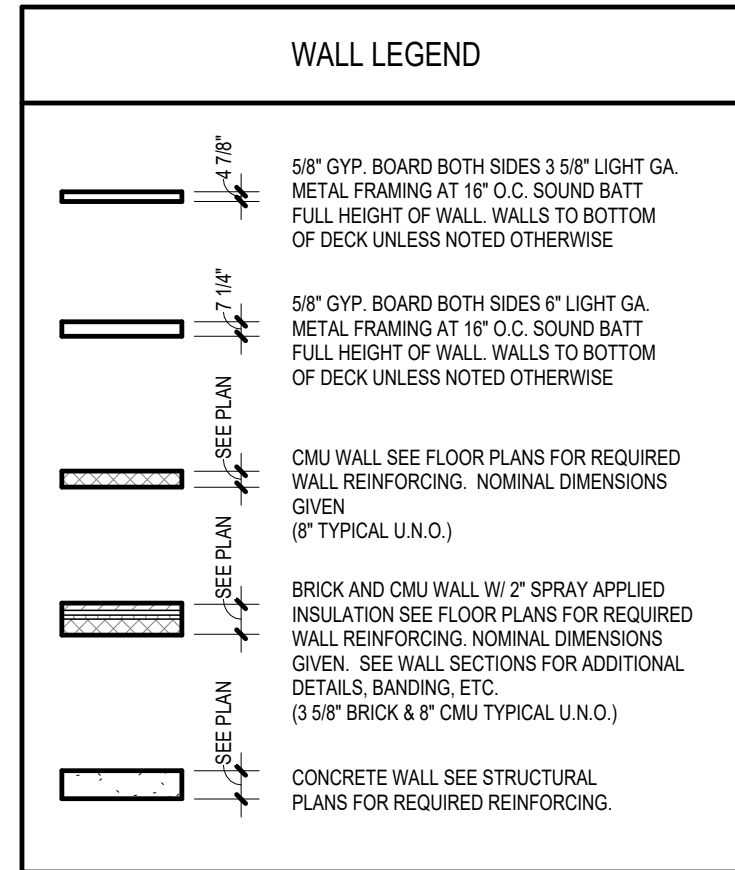


DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OR SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
- ALL MASONRY BLOCK AND BRICK WALLS TO BE REMOVED MUST BE TOOTHED TO RECEIVE NEW MASONRY, UNLESS NOTED OTHERWISE ON DRAWINGS.
- DEMOLITION CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED. REFER TO STRUCTURAL & ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL DEMOLITION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE (DAMAGED MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION. FOR NEW OPENINGS IN EXISTING WALLS, COORDINATE NEW LINTELS WITH MASONRY CONTRACTOR.
- PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL, LOUVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL WITH CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
- ALL TRADES ARE TO COORDINATE THE REMOVAL OF EXISTING LOOSE EQUIPMENT WITH ARCHITECT AND/OR OWNER. ADDITIONAL EQUIPMENT FOUND THAT IS NOT NOTED ON DEMOLITION PLAN SHALL BE REMOVED AS PART OF GENERAL DEMOLITION AFTER VERIFICATION WITH ARCHITECT/OWNER.
- REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALLS AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
- REMOVE EXISTING BORROWED LITE OR DOOR & DOOR FRAME. (DOOR LINTEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN. SEE STRUCTURAL FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09 90 00. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.
- SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL, ELECTRICAL, DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXISTING ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.
- REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNERS REQUEST.
- REMOVE EXISTING GYP BD CEILING. REPLACE PER REMOVED CEILING PLANS.
- SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATOIRES, SINKS, WATER CLOSETS, URINALS, FAN TUBES, MECH. DUCTWORK, UNIT VENTS, ETC.)
- REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW, FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
- REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.
- REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.
- REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBOOTS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.
- REMOVE EXISTING WASHER AND DRYER. SALVAGE EXISTING WASHER AND DRYER AS REQUESTED BY OWNER.
- REMOVE DISPENSERS AND/OR TOILET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
- REMOVE EXISTING LOCKERS, CONCRETE BENCH AND MASONRY SUPPORT WALLS BELOW. SALVAGE EXISTING LOCKERS AS REQUESTED BY OWNER.
- REMOVE EXISTING 4" HIGH CURB AT MASONRY OPENING. PATCH AND REPAIR EXISTING CONCRETE SLAB TO BE SMOOTH AND LEVEL WITH ADJACENT SURFACES.
- REMOVE STEP AND LOWER DOOR TO BE FLUSH WITH EXISTING INTERIOR CONCRETE FLOOR. GRADE EXTERIOR SITE TO SLOPE TO DOOR. REFER TO CIVIL DRAWINGS.

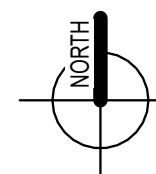
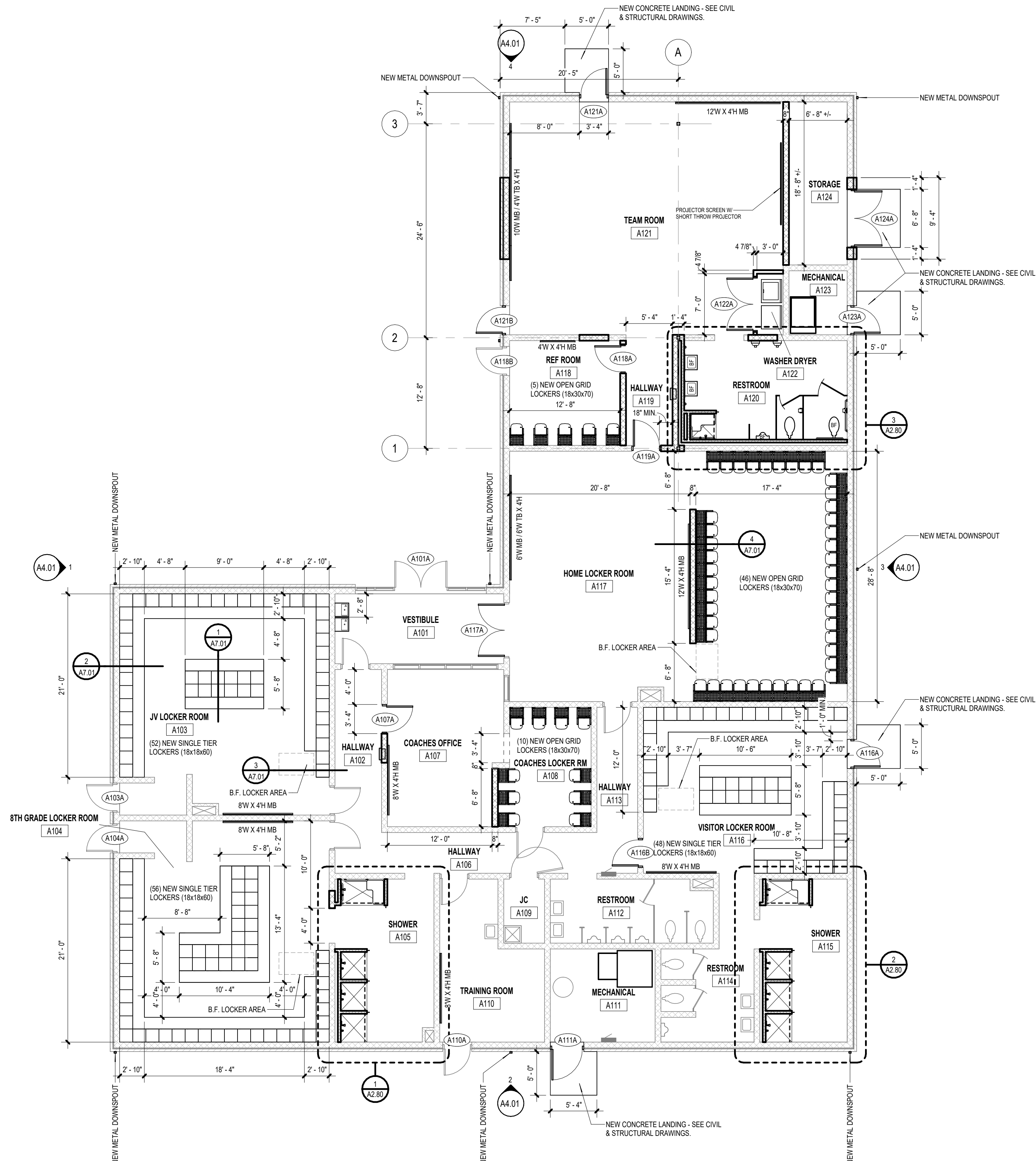


FIELDHOUSE DEMOLITION PLAN
1/8" = 1'-0"



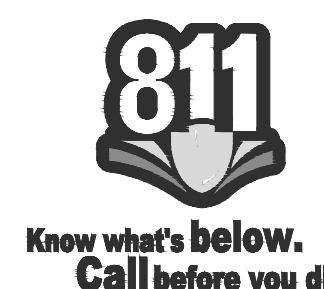
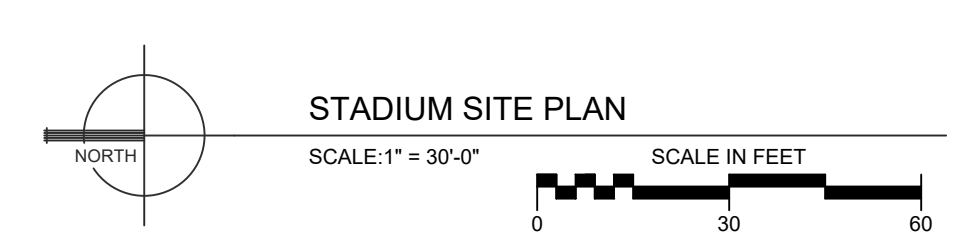
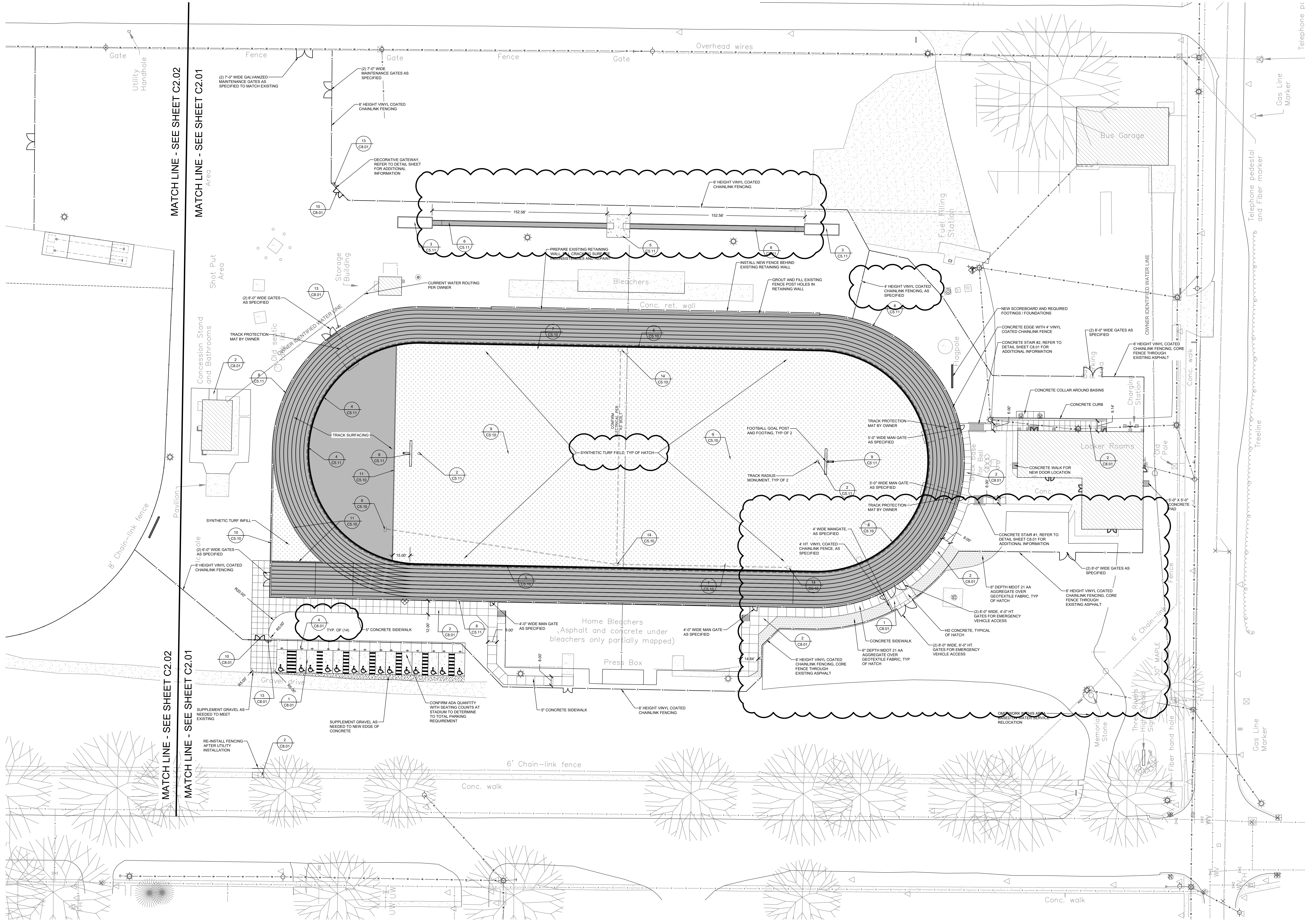
GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETS, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 00.01 FOR REQUIREMENTS.
- FOR ALL CABINETS, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE FULL BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURAL FOR LINTELS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SMOO PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS:
 - A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - C. ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.



FIELDHOUSE FLOOR PLAN
1/8" = 1'-0"

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ARMSTRONG FIELD
THREE RIVERS COMMUNITY SCHOOLS
THREE RIVERS, MICHIGAN

ISSUANCES

10.12.2023	BIDS & CONSTRUCTION
11.13.2023	ADDENDUM 001
11.28.2023	ADDENDUM 002

DRAWN	ACB
REVIEWED	NTB

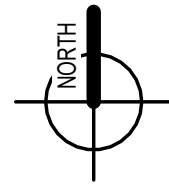
PROJECT NO. 5-5136

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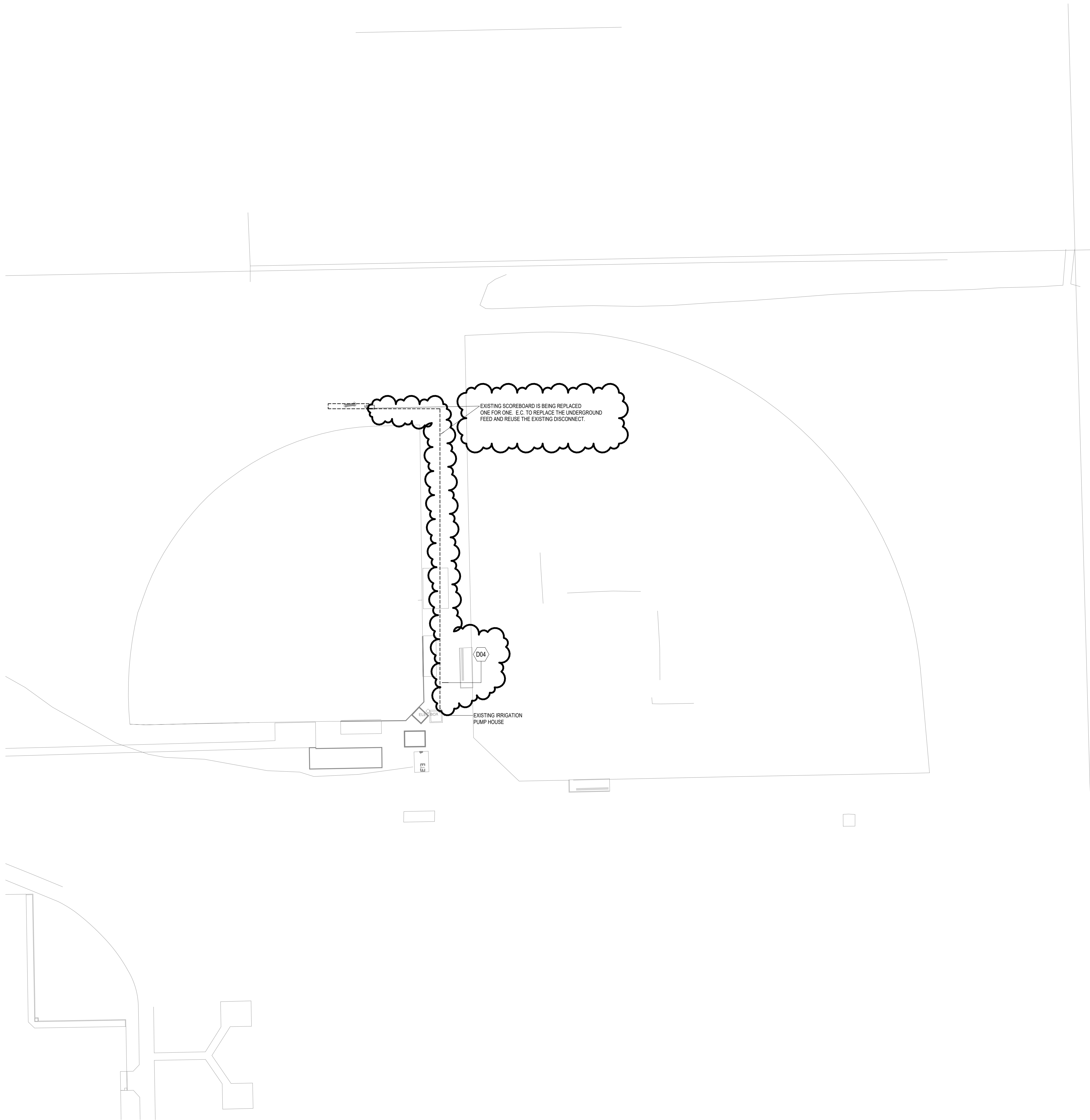
STADIUM SITE PLAN

C2.01

Autodesk Docs: 05-5136 Three Rivers Armstrong Field-5136E 2022.rvt
11/27/2023 11:25:45 AM



SOFTBALL FIELD SITE ELECTRICAL DEMOLITION PLAN
1" = 40'-0"



ELECTRICAL DEMOLITION GENERAL NOTES

- REMOVE ALL ITEMS SHOWN ON DEMO PLAN UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
- MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
- THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDINGSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDINGSITE.
- ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
- ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
- IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
- LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
- PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
- EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REVISE / REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
- PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.

ELECTRICAL KEYNOTES

- D04 EXISTING SCOREBOARD IS FED ON THE SAME UNKNOWN 120V FEED FOR THE IRRIGATION PUMP. THE EXISTING 120V SCOREBOARD FEED COMES OUT OF THIS PUMP HOUSE. E.G. TO DISCONNECT AND REMOVE THE EXISTING SCOREBOARD UNDERGROUND FEED.

ISSUANCES

10.12.2023 BIDS & CONSTRUCTION
11.28.2023 ADDENDUM 002

DRAWN NTM
REVIEWED AAM

PROJECT NO. 5-5136

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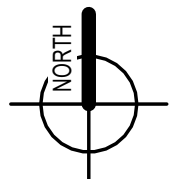
SOFTBALL ELECTRICAL
DEMOLITION PLAN

ES1.03

1. REFER TO SITE/CIVIL PLANS FOR ADDITIONAL INFORMATION.

2. REFER TO SPECIAL PLANS FOR ADDITIONAL INFORMATION.
3. LOCATIONS SHOWN FOR EXISTING UTILITIES (IF ANY) ARE APPROXIMATE AND DERIVED FROM GENERAL OBSERVATION AND AVAILABLE RECORDS. THIS INFORMATION IS NOT TO BE INTERPRETED AS GUARANTEEING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA.
4. CONTRACTOR SHALL FIELD-VERIFY LOCATIONS, SIZES, AND TYPES OF ALL EXISTING UNDERGROUND UTILITIES CONDITIONS, AND CANNOTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES TO IDENTIFY PUBLIC UTILITIES. VERIFY ALL PRIVATE UTILITIES WITH RECORDS AND MAINTENANCE PERSONNEL.
5. PROTECT THE SITE, ADJACENT PROPERTY, AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE/ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE, OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. ALL UNDERGROUND CONDUIT SHALL BE RIGID NONMETALLIC (RNC) TYPE. ALL UNDERGROUND ENDS/SHOULDS SHALL BE GALVANIZED RIGID METALLIC (RMC) TYPE. PROTECT FROM CORROSION PER CONDUIT SPECIFICATION REQUIREMENTS.
7. INSTALL DETECTABLE UNDERGROUND WARNING TAPE ABOVE ALL UNDERGROUND CONDUITS AND CABLES. COLOR PER APWA UNIFORM COLOR CODE AND FOR SELECTING NON-DETECTABLE CABLES PER COMMUNICATIONS/ALARMING. REFER TO SPECIFICATIONS.
8. ALL EXISTING TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. DO NOT DRIVE HEAVY EQUIPMENT WITHIN 17 FEET OF TREE TRUNKS. BRANCHES SHALL BE TRIMMED TO PREVENT DAMAGE TO TRUNKS. TREES SHALL BE CUT OUT AS DIRECTED BY THE ARCHITECT/ENGINEER. ANY ROOTS OF EXISTING TREES THAT ARE DAMAGED OR REMOVED SHALL BE REPLACED WITHIN SIX MONTHS WITHIN 100 FEET OF THE TRUNKS AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
9. PATCH AND REPAIR GRASS AND/OR OTHER IMPROVED PLANTINGS AS REQUIRED WHERE NEW UNDERGROUND CONDUITS/CABLES AND/OR DRAINAGE ARE INSTALLED. PATCH AND REPAIR EXISTING PLANTINGS LEVEL, OUT TO FLUSH WITH GRASS, AND REMOVE ANY EXCESS MATERIAL PRIOR TO SEEDING REPAIR.
10. CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ANY EXISTING SURFACE FINISHES AND/OR EXISTING STRUCTURES, INCLUDING GRASS, CONCRETE, AND LANDSCAPE FORMS, STRUCTURES, IRRIGATION, UNDERGROUND UTILITIES, ETC.

P09	EXISTING CHAIN LINK FENCE ALONG EXISTING ELECTRICAL GEAR. E.C. TO INSTALL NEW TRANSFORMER AND NEW PANEL INSIDE OF FENCED AREA. TRANSFORMER WILL BE NEMA 3R RATED AND NEW PANEL WILL HAVE TO BE NEMA 3R RATED. TRANSFORMER AND PANEL TO BE MOUNTED ON 4" X 4" X 8' W/ 2" X 4" X 8' IN SIZE MOUNTED ON IRON.
P10	E.C. TO FURNISH AND INSTALL A NEW 20'W/14'120V UNDERGROUND FEED FROM THE NEW 120V SOUTHWEST PANEL TO THE NEW SCOREBOARD. THIS WILL REQUIRE E.C. TO WIRE AND CONNECT THE NEW SCOREBOARD AND REUSE OF EXISTING DISCONNECT COACH. COACH WILL INCLUDE COMMUNICATING WITH THE OWNER AND CAREFUL DIGGING AROUND THE PUMP HOUSE IN ORDER NOT TO DIG UP ANY UNDERGROUND IRRIGATION.



SOFTBALL SITE ELECTRICAL PLAN

$$1^{\circ} = 40'-0''$$

ARMS I RONG FIELD

THREE RIVERS COMMUNITY SCHOOLS

THREE RIVERS, MICHIGAN

QUANCES

0.12.2023 BIDS &
CONSTRUCTION
1.28.2023 ADDENDUM 002

RAWN	NTM
VIEWED	AAM

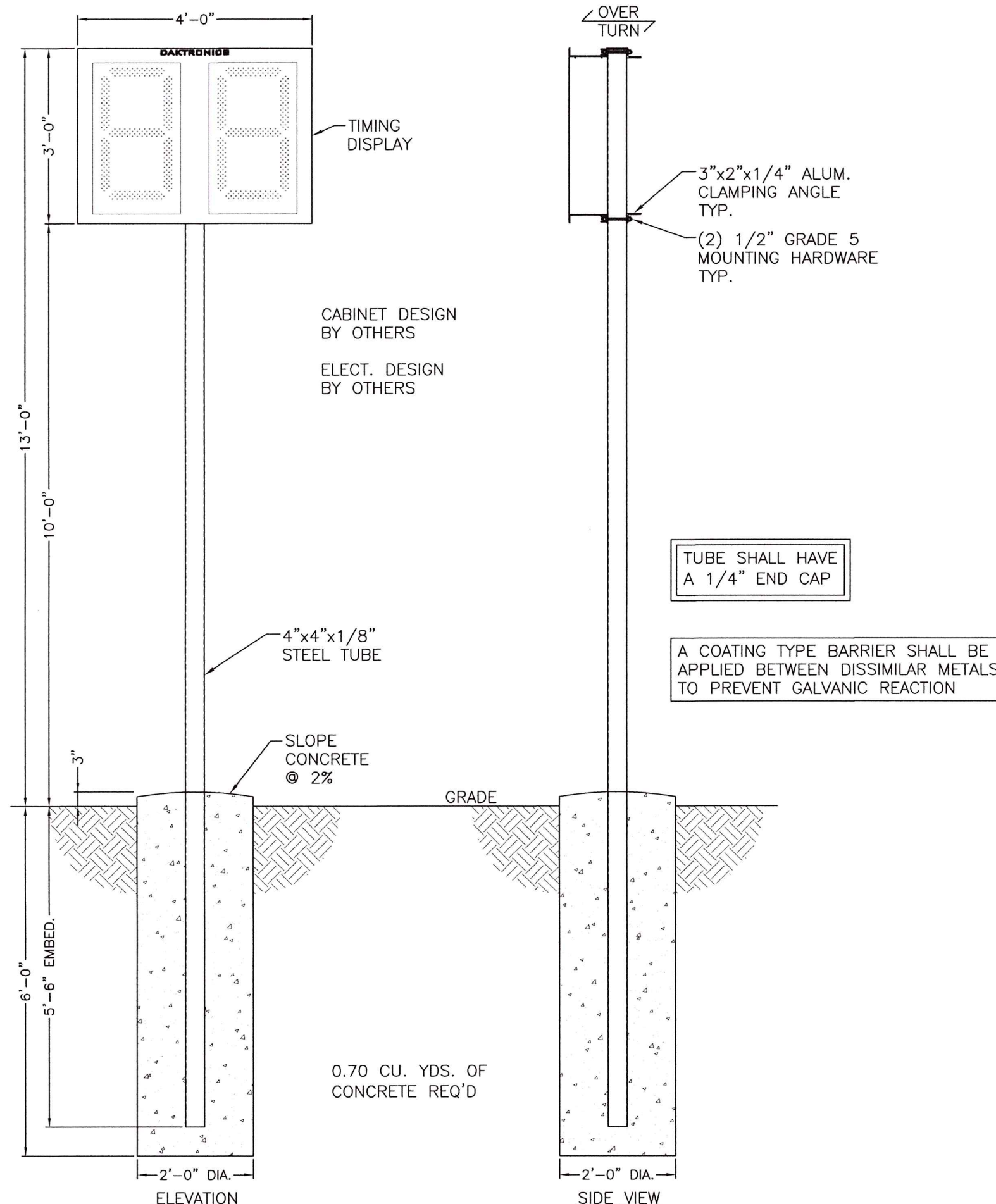
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SOFTBALL SITE ELECTRICAL PLAN

ES2.03



NOTES:

1.0 REFERENCE

- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS.
- 1.2 REFER TO DAKTRONICS RISER DIAGRAM FOR ALL ELECTRICAL POWER AND SIGNAL SPECIFICATIONS.
- 1.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.
- 1.4 ALL DIMENSIONS ARE IN FEET AND INCHES.

2.0 PROJECT RESPONSIBILITY

- 2.1 THIS DESIGN IS INTENDED TO BE INSTALLED AT THE ADDRESS SHOWN AND SHOULD NOT BE USED AT ANY OTHER LOCATIONS.
- 2.2 DAKTRONICS IS RESPONSIBLE FOR CERTIFYING ALL NEW STRUCTURE.
- 2.3 FOOTING DESIGN COMPLETED BY DAKTRONICS' ENGINEER. SURVEYING COMPLETED BY CUSTOMER'S SUBCONTRACTOR. SOIL SAMPLE WAS COLLECTED AND ANALYZED BY DRIESENGA & ASSOCIATES, INC.; PROJECT NO. 2350354.3A; DATED: JUNE 20, 2023.
- 2.4 DAKTRONICS' AND CUSTOMER'S SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO INSTALLATION.
- 2.5 ALL SUBCONTRACTORS SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND OR LOCAL REGULATIONS.
- 2.6 ALL ACCESS STRUCTURE MUST MEET ALL APPLICABLE LOCAL, FEDERAL, AND STATE SAFETY REGULATIONS.
- 2.7 EACH SUBCONTRACTOR IS RESPONSIBLE FOR JOBSITE SAFETY.
- 2.8 ERECTION SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING TEMPORARY BRACING FOR STABILITY OF UNINSTALLED EQUIPMENT AND STRUCTURE.
- 2.9 EACH SUBCONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF WASTE MATERIALS ON THE JOBSITE.

3.0 DISPLAY NOTES

- 3.1 DAKTRONICS DISPLAYS ARE ALUMINUM AND STEEL CONSTRUCTION.
- 3.2 ELECTRICAL COMPONENTS ARE ACCESSED FROM THE FRONT AND/OR REAR FOR THE VIDEO DISPLAY, FRONT FOR THE SCOREBOARD, FRONT FOR THE BACKLIT AD PANELS, AND REAR FOR THE SPEAKER CABINET.
- 3.3 LIFT POINTS ARE PROVIDED BY DAKTRONICS IN EACH SECTION (ALL REMOVABLE LIFT POINTS SHALL BE REMOVED AFTER THE INSTALLATION OF EACH SECTION).
- 3.4 WHEN LIFTING SECTIONS THE PREFERRED METHOD IS TO USE A SPREADER BEAM TO DISTRIBUTE WEIGHT AMONG ALL LIFT POINTS PROVIDED. FOR ALTERNATE METHOD OF RIGGING REFER TO INSTALLATION MANUAL.
- 3.5 DAKTRONICS LVX VIDEO DISPLAYS ARE SUPPLIED WITH T-CLIPS ATTACHED TO DISPLAY SECTIONS WITH 1/2" GRADE 5 HARDWARE AT ALL PREDETERMINED LOCATIONS.
- 3.7 DAKTRONICS SCOREBOARD DISPLAYS ARE SUPPLIED WITH ROCKER CLAMP MOUNTING HARDWARE THAT ATTACHES TO THE DISPLAY SECTIONS WITH 1/2" GRADE 5 HARDWARE AT ALL PREDETERMINED LOCATIONS.
- 3.8 DAKTRONICS ACCENT TRUSSES ARE SUPPLIED WITH CLIP ANGLES OR ROCKER CLAMPING HARDWARE THAT ATTACHES TO DISPLAY SECTIONS WITH 1/2" GRADE 5 HARDWARE AT PREDETERMINED LOCATIONS.
- 3.9 DEPTH OF CABINET MAY VARY DEPENDING ON DISPLAY TECHNOLOGY.

4.0 STRUCTURAL NOTES

- 4.1 COMPLY WITH THE PROVISIONS OF THE FOLLOWING LATEST EDITIONS BUT NOT LIMITED TO THESE ONLY:
 - ALL FEDERAL, STATE AND LOCAL LAWS THAT GOVERN SAFETY REQUIREMENTS FOR STEEL ERECTION.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
 - AMERICAN WELDING SOCIETY (AWS) STANDARD CODE D1.1 "STRUCTURAL WELDING CODE"
 - AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GR. A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
 - ACI-318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY"
- 4.2 STRUCTURAL STEEL GRADE:
 - PLATE, ANGLE, AND CHANNEL SHALL BE ASTM A36 (Fy=36 ksi)
 - HOLLOW STRUCTURAL STEEL TUBE SHALL BE ASTM A500-C (Fy=50 ksi)
 - WIDE FLANGE AND WT SHALL BE ASTM A992-50 (Fy=50 ksi)
- 4.3 BOLTS AND NUTS
 - ALL BOLTS SHALL BE HEAVY HEX STRUCTURAL BOLTS ASTM F3125 GR. A325 TYPE 1 U.N.O.
 - ANCHOR BOLTS SHALL MEET ASTM F1554 GRADE 55
 - STRUCTURAL HEX NUTS SHALL BE MINIMUM ASTM A563-DH
 - STRUCTURAL WASHERS SHALL BE MINIMUM ASTM F436
 - GRADE 5 HARDWARE SHALL BE ACCEPTABLE WHERE SPECIFIED ON DRAWINGS
 - ALL HEAVY HEX STRUCTURAL BOLTS, ANCHOR RODS, NUTS & WASHERS SHALL BE GALVANIZED PER THE LATEST EDITION OF ONE OF THE FOLLOWING ASTM STANDARDS: ASTM A153 (CLASS C) OR ASTM B 695 (CLASS 50)
 - ALL BOLTS IN CONTACT WITH ALUMINUM SHALL BE ZINC PLATED GALVANIZED AND SHALL BE MINIMUM ASTM A325
 - ALL BOLTS SHALL BE FULLY PRETENSIONED PER APPROVED METHODS LISTED IN AISC STANDARDS U.N.O.
- 4.4 CONCRETE AND GROUT
 - CONCRETE SHALL BE PLACED TO ACI CODES AND STANDARDS OF PRACTICE. CONSTRUCTION JOINTS ARE NOT ALLOWED. INDIVIDUAL FOUNDATIONS SHALL BE POURED IN A CONTINUOUS POUR.
 - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 psi.
 - NON-SHRINK GROUT SHALL CONFORM TO ASTM C-1107. NON-SHRINK GROUT SHALL HAVE A MINIMUM STRENGTH AT 28 DAYS OF 8,000 PSI AND SHALL BE SLOPED AWAY FROM COLUMNS IN ALL DIRECTIONS AT A MINIMUM 2.0% SLOPE.
 - FOR ANCHOR BOLTED COLUMNS, EQUIPMENT CAN BE INSTALLED ON STRUCTURE AFTER A MINIMUM CURING TIME OF 14 DAYS, PROVIDED THE CURING PROCESS HAS BEEN PROPERLY MAINTAINED IN ACCORDANCE WITH ACI-318.
 - FOR DIRECTLY EMBEDDED COLUMNS, EQUIPMENT CAN BE INSTALLED ON STRUCTURE AFTER A MINIMUM CURING TIME OF 7 DAYS, PROVIDED THE CURING PROCESS HAS BEEN PROPERLY MAINTAINED IN ACCORDANCE WITH ACI-318.
- 4.5 STRUCTURAL STEEL WELDING
 - ALL WELDING (SHOP & FIELD) SHALL BE PERFORMED BY A WELDER CERTIFIED FOR THE SPECIFIED TYPE AND POSITION OF THE REQUIRED WELD.
 - ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1
 - SHIELDED METAL ARC WELDING PROCESSES SHALL BE USED TO PERFORM WELDS
 - LOW HYDROGEN E70 SERIES ELECTRODES TO BE USED WITH SMAW PROCESS
- 4.6 PAINT
 - ALL STRUCTURE STEEL SHALL BE PREPARED TO MEET CUSTOMERS SPECIFICATIONS OR A MINIMUM OF SSPC-SP2
 - ALL STEEL MUST BE COATED AND PROTECTED BY SPECIFIED PRIMER AND THEN FINISHED PER COLOR INDICATED BY THE CUSTOMER
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 - SELF-DRILLING TEK SCREWS SHALL NOT BE USED FOR ATTACHMENT INTO HOLLOW STRUCTURAL STEEL SECTIONS UNLESS A THREAD SEALANT IS USED TO PREVENT WATER FROM ENTERING SECTION
 - ANY OTHER PENETRATIONS INTO HOLLOW STRUCTURAL STEEL SECTIONS SHALL BE PROPERLY SEALED TO PREVENT WATER INTRUSION
- 4.8 MICHIGAN BUILDING CODE 2015 (IBC 2015), ASCE 7-10, DESIGN CRITERIA:
 - EXPOSURE C, CATEGORY II
 - WIND SPEED = 115 MPH
 - SEISMIC DESIGN CATEGORY = B; S_{DS} = 0.10
 - ALLOWABLE LATERAL SOIL BEARING PRESSURE = 200 PSF PER FOOT OF DEPTH
 - DESIGN WIND PRESSURE = 22.43 PSF (ASD)

INSTALLATION ADDRESS:

THREE RIVERS
HIGH SCHOOL

700 6th AVENUE
THREE RIVERS, MI 49093

CLIENT:



331 32nd AVENUE
BROOKINGS, SD 57006

REV	DATE	DESCRIPTION
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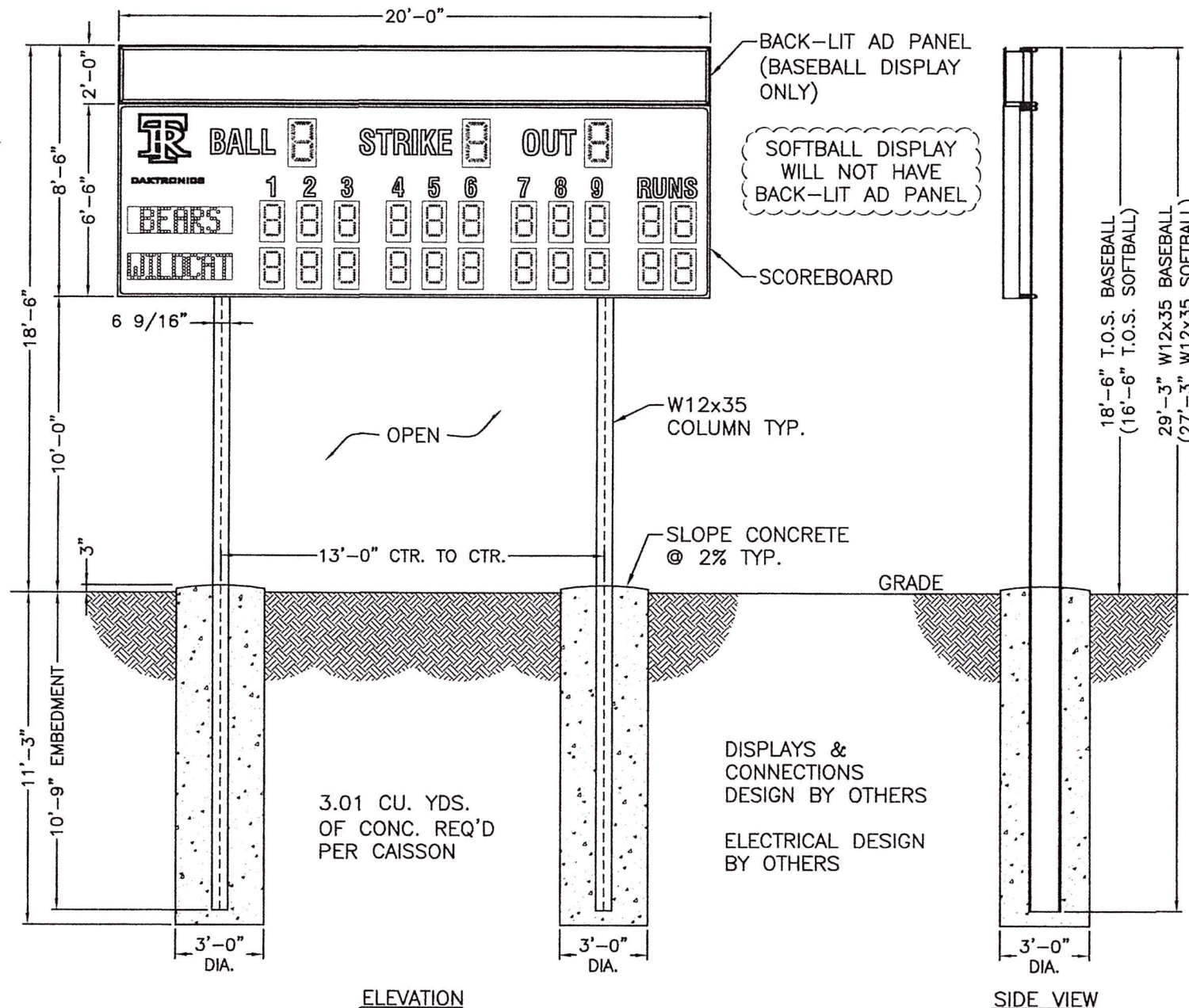
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INSTALLATION ADDRESS:

THREE RIVERS
HIGH SCHOOL

700 6th AVENUE
THREE RIVERS, MI 49093

CLIENT:

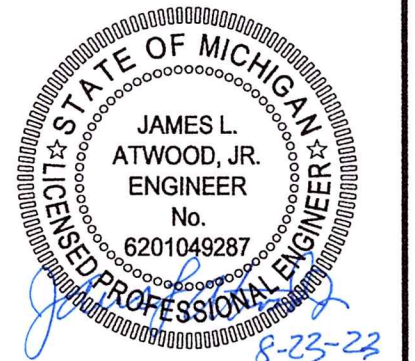
DAKTRONICS

331 32nd AVENUE
BROOKINGS, SD 57006

REV	DATE	DESCRIPTION
1	-/-/-	-----
2	-/-/-	-----
3	-/-/-	-----

All designs and plans indicated on this drawing are created specifically for the noted project and are the sole property of LINK Engineering, L.L.C. Use of these designs or plans for any purpose other than the intended application shall be prohibited without the written consent of LINK Engineering, L.L.C. Disclosure of any of the information enclosed within, without consent of the owner, is a violation of intellectual property and shall not be tolerated.

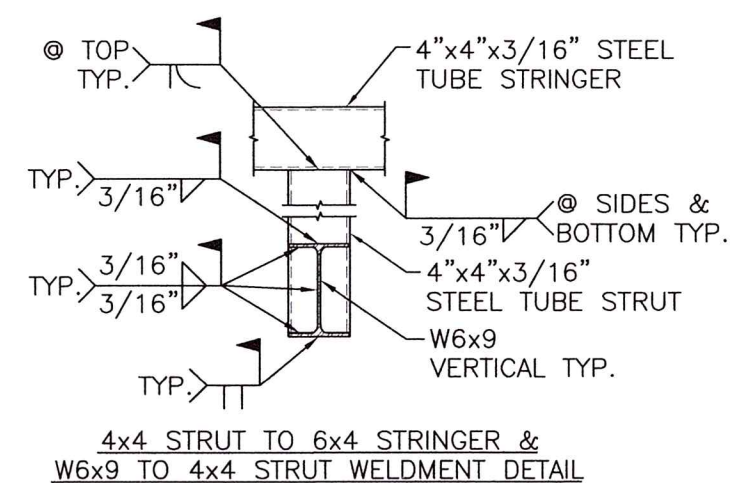
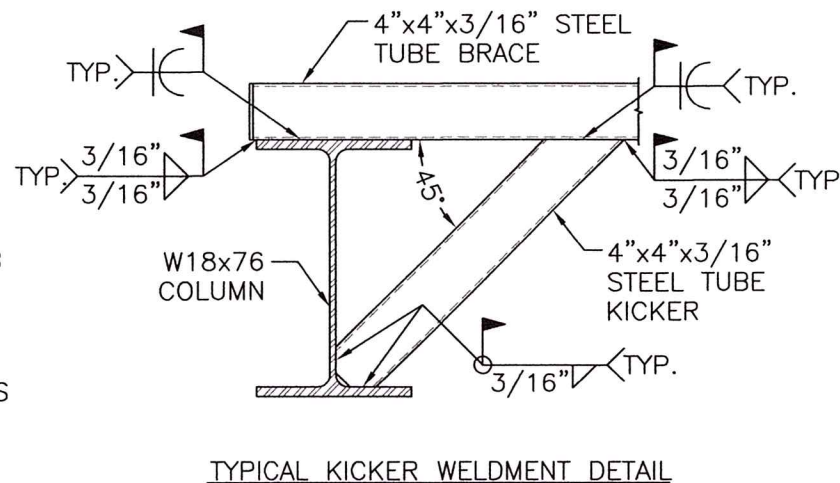
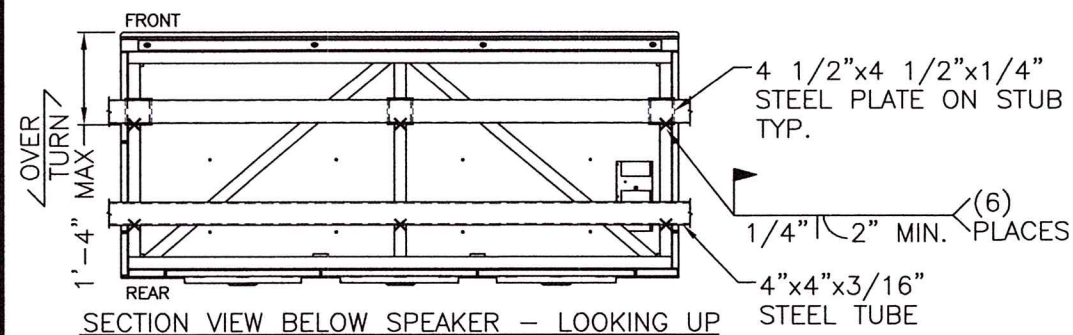
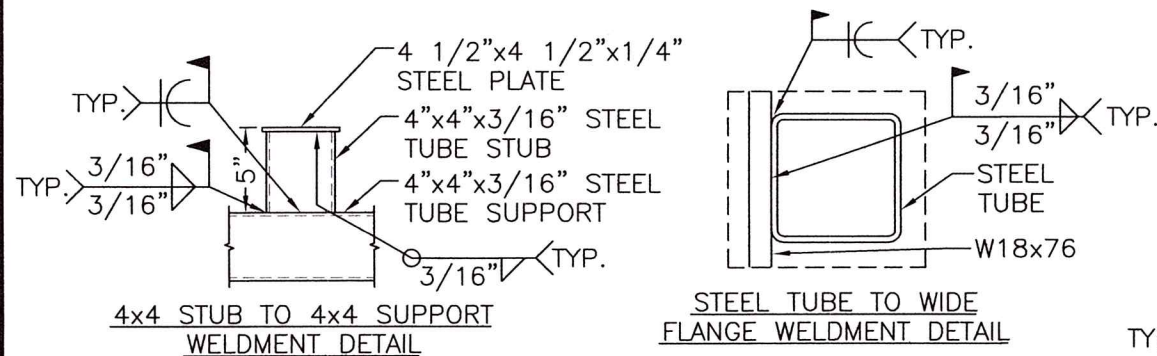
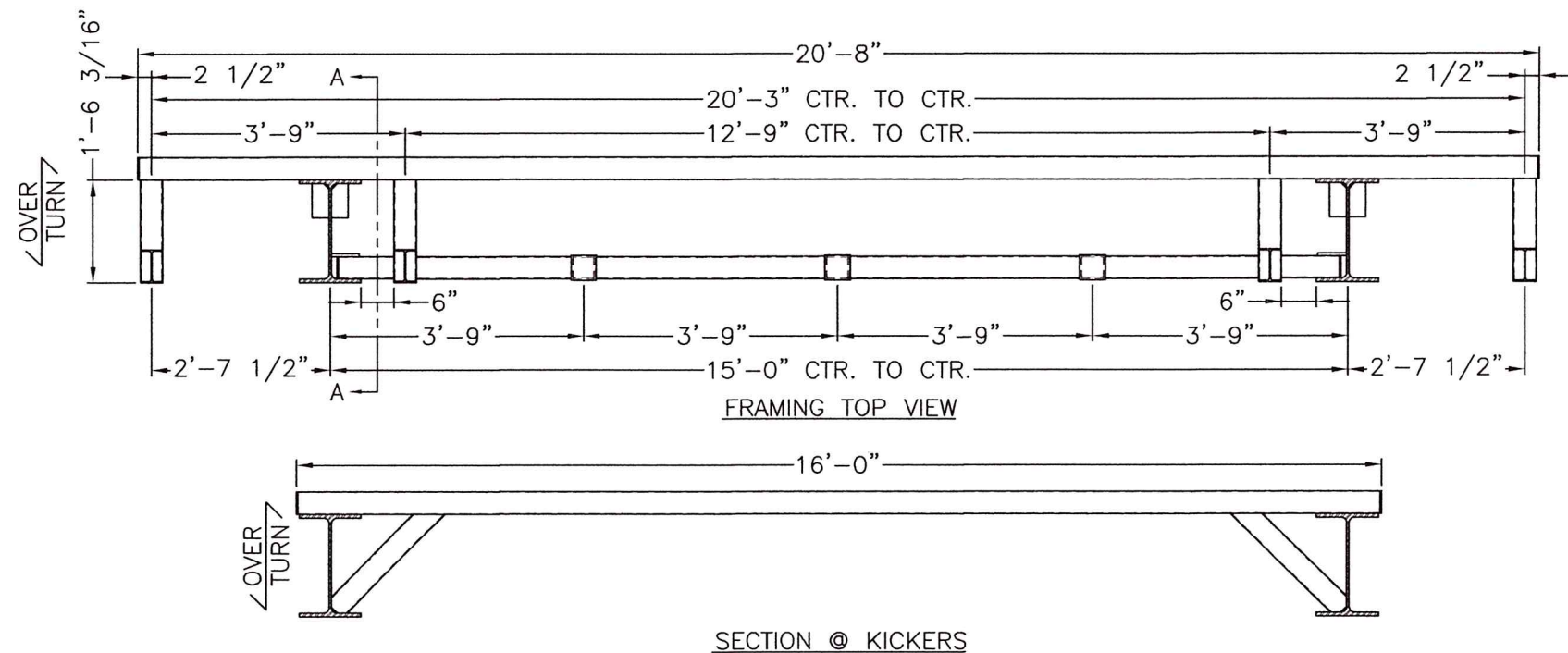
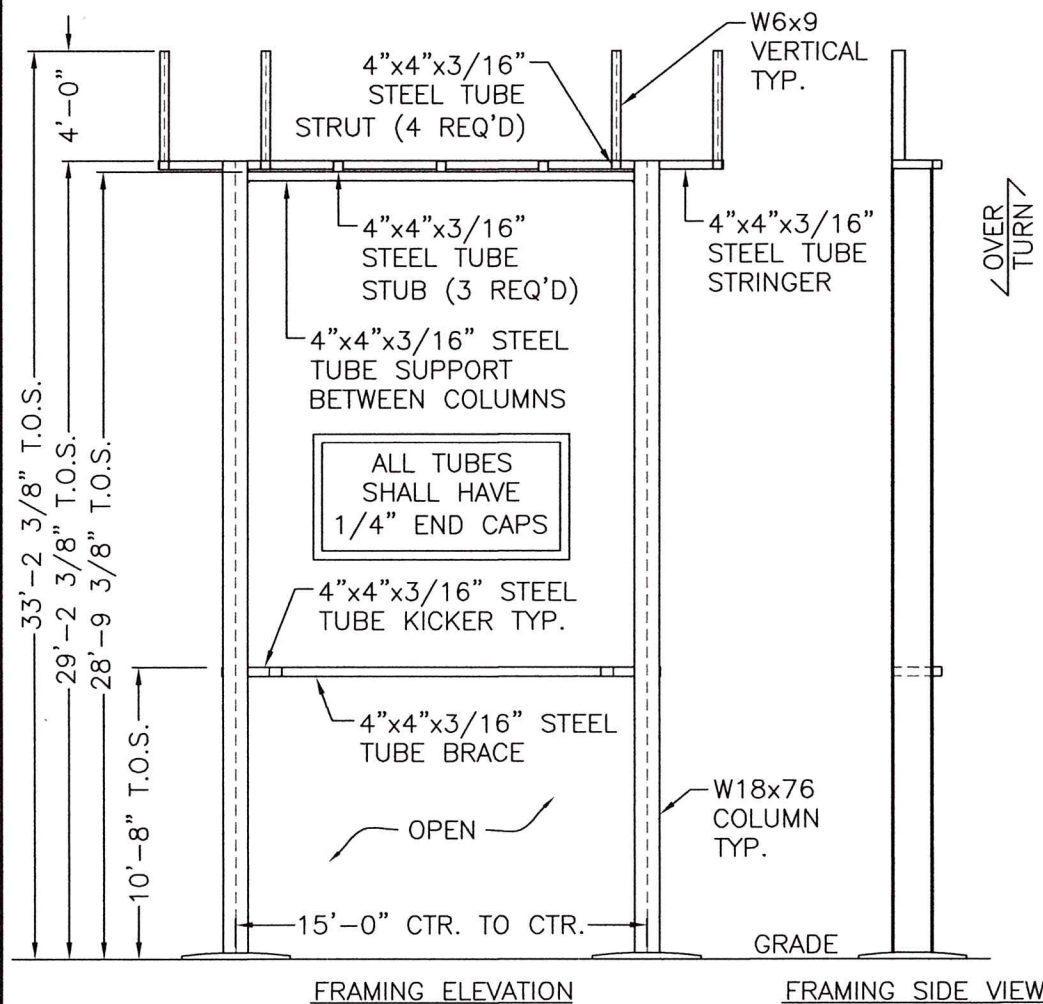
SEAL & SIGNATURE:



LINK Engineering, L.L.C.

135 South David Lane • Knoxville, Tennessee 37922
Phone: (865) 538-4001 • www.linkengr.com

Project Number:		Drawing Number:	
23-0541R		B1191806	
SHT.	OF	DATE:	BY:
1	1	8/22/23	TR



SOME FIELD WELDS MAY BE PERFORMED IN SHOP AT CONTRACTORS PREFERENCE

INSTALLATION ADDRESS:

THREE RIVERS
HIGH SCHOOL

700 6th AVENUE
THREE RIVERS, MI 49093

CLIENT:

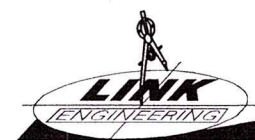
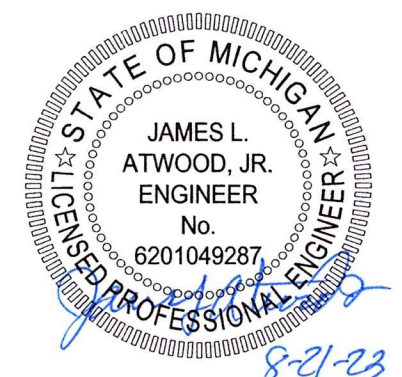


331 32nd AVENUE
BROOKINGS, SD 57006

REV	DATE	DESCRIPTION
Δ	-/-/-	-----
Δ	-/-/-	-----
Δ	-/-/-	-----

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SEAL & SIGNATURE:



LINK Engineering, L.L.C.

135 South David Lane • Knoxville, Tennessee 37922
Phone: (865) 539-4001 • www.linkengr.com

Project Number:	23-0541	Drawing Number:	B1191803
SHT.	2	OF	2
DATE:	8/17/23	BY:	TR

Three Rivers Community Schools

Site Logistics Plan - Armstrong Field

11/27/2023



LEGEND:

-Material Lay-Down Area & Contractor Parking	
-20' Gate Opening	
-6' Tall Temporary Chain Link Fencing Panels	
-4' Tall Plastic Snow Fencing	
-Construction Dumpsters	
-Skillman Trailer	
-Project Signage	



CONTRACTOR'S BID FOR PUBLIC WORKS

Armstrong Field
Three Rivers Community Schools
St. Joseph County

PART I

(To be completed for all bids)
(Please type or print)

BIDDER (firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number _____ Email Address: _____

Person to contact regarding this Bid: _____

Pursuant to notices given, the undersigned offers to furnish labor and materials necessary to complete the construction work for:

Insert Bid Category No.(s) and Name(s)

of public works project, **Armstrong Field**, in accordance with Plans and Specifications prepared by **GMB Architecture + Engineering, 555 4th Street NW, Grand Rapids, MI 49504**, as follows:

BASE BID

For the sum of _____
(sum in words)

_____ DOLLARS (\$ _____)
(sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No.(s) _____
PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO _____

Has visited the jobsite YES _____ NO _____

The Bidder must attach to this bid, the sworn and notarized affidavit (attached at the end of this Bid Form) disclosing any familial relationship between the Owner or an employee of the bidder and any member of the District's Board or the Superintendent of the District.

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent of the schedule can be met. _____ YES _____ NO

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:	DBE: YES _____%	NO _____
	MBE: YES _____%	NO _____
	WBE: YES _____%	NO _____
	VBE: YES _____%	NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE**

Alternate Bid No. 1 – Baseball Field Improvements as called out in bid documents (Sheets C1.02 and C2.02)

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

Alternate Bid No. 2 – Softball Field Improvements as called out in bid documents (Sheets C1.03 and C2.03)

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

Alternate Bid No. G1 – Turf Maintenance: Provide all costs to provide turf maintenance annually. Cost shall be “per year” and should encompass all elements of year maintenance, including but not limited to turf grooming, sanitation, infill monitoring and refill as required, fixing turf wear and addressing any visible issues to the turf surface.

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

Alternate Bid No. C3 – All work associated with installing a polyurethane track in lieu of latex.

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such sale.

OATH AND AFFIRMATION

I affirm under the penalties of perjury that the foregoing facts and information are true and correct to the best of my knowledge and belief.

Dated at _____ this _____ day of _____, 20____.

(Name of Organization)

By _____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)

) SS:

COUNTY OF _____)

_____ being duly sworn, deposes and says that

he is _____ of the above _____
(Title) (Name of Organization)

and that the statements contained in the foregoing Bid, certification and Affidavit are true and correct.

Subscribed and sworn to before me this _____ day of _____, 20 ____.

Notary Public

My Commission Expires: _____

County of Residence: _____

PART II

(Complete sections I, II, and III for all state and local public works projects)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed?

Contract Amount	Class of Work	When Completed	Name and Address of Owner

2. What public works projects has your organization now in process of construction:

Contract Amount	Class of Work	When Completed	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____ If so, where and why?_____

4. List references from private firms for which you have performed work.

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work.
2. If you intend to sublet any portion of the Work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you expect to require a bond.
3. What equipment do you intend to use for the proposed Project?
4. Have you made contracts or received offers for all materials within prices used in preparing your proposal? _____ yes _____ no.

SECTION III OATH AND AFFIRMATION

I hereby affirm under the penalties of perjury that the facts and information contained in the foregoing Bid for public works are true and correct to the best of my knowledge and belief.

IN TESTIMONY WHEREOF, The Bidder has hereunto set his hand this

_____ day of _____, 20_____.

Bidder:_____

IN TESTIMONY WHEREOF, The Bidder (a firm) have hereunto set their hands this

_____ day of _____, 20_____.

Firm Name: _____

By:_____

Individual names:_____

IN TESTIMONY WHEREOF, The Bidder (a corporation) has caused this proposal to be signed by its President and Secretary and affixed its corporate seal this _____ day of _____, 20 _____.

Name of Corporation: _____

President: _____

Secretary: _____

ACKNOWLEDGEMENT

STATE OF _____)

) SS:

COUNTY OF _____)

_____ being duly sworn, deposes and says that

he is _____ of the above _____
(Title) (Name of Organization)

and that the answers to the questions in the foregoing questionnaires and all statements therein contained are true and correct.

Subscribed and sworn to before me this _____ day of _____, 20 ____.

Notary Public

My Commission Expires: _____

County of Residence: _____

AFFIDAVIT OF BIDDER - FAMILIAL DISCLOSURE

The undersigned, the Owner or authorized officer of _____ (the 'Bidder'), pursuant to the familial disclosure requirement provided in the _____ (the 'School District') advertisement for construction bids, hereby represent and warrant, except as provided below, that no familial relationships exist between the Owner(s) or any employee of _____ and any member of the Board of Education of the School District or the Superintendent of the School District.

List any Familial Relationships:

BIDDER:

By: _____

Its: _____

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

This instrument was acknowledged before me on the ____ day of _____, 20__, by _____.

_____, Notary Public

_____ County, Michigan

My Commission Expires: _____

Acting in the County of: _____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT
Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named company (the “Company”), pursuant to the compliance certification requirement provided in the **Three Rivers Community School’s** Request For Proposal (the “RFP”), hereby certifies, represents, and warrants that the Company (which includes its officers, directors and employees) is not an “Iran Linked Business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event the Company is awarded a contract by the **Three Rivers Community Schools** as a result of the aforementioned RFP, the Company is not and will not become an “Iran Linked Business” at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the **Three Rivers Community School’s** investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that the person has submitted the false certification.

BIDDER:

By: _____

Its: _____

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

This instrument was acknowledged before me on the ____ day of _____, 20__, by _____.

_____, Notary Public

_____ County, Michigan

My Commission Expires: _____

Acting in the County of: _____

END OF SECTION 00 31 00

Activity Name			Original Duration	Start	Finish	N				D				January 2024				F				March 2024				April 2024				May 2024				June 2024				July 2024				August 2024				S				O				N				D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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