

**ADDENDUM
NO. 01**

February 10, 2025

Kalamazoo Public Schools – Loy Norrix High School Athletics
606 East Kilgore Road
Kalamazoo, MI 49001

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 January 25, 2025, by TowerPinkster. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-2 through ADD 1-1 and TowerPinkster Addendum No. 01, dated February 7, 2025, consisting of 40 pages.

A. SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY

Paragraph 3.03 BID CATEGORIES

A. BID CATEGORY NO. 01 – GENERAL TRADES

Add the following Specification

Section	01 51 30	Temporary Heating, Ventilation, and Cooling
Section	01 51 50	Temporary Water
Section	01 51 80	Temporary Fire Protection

Add the following Clarification

In reference to Specifications Section 22 40 00 – Plumbing Fixtures, Kalamazoo Public Schools is to provide the specified Drinking Fountain with Bottle Filler fixture for installation by General Trades Contractor.

B. SPECIFICATION SECTION 00 31 00 – BID FORM

Add the following Alternate:

1. Alternate Bid No. 01 – State the cost to provide Baseball Outfield: Solid Panel “Batter’s Eye” as outlined in Spec Section 11 68 38.
2. Add Unit Pricing.

C. SPECIFICATION SECTION 00 43 50 – SUBCONTRACTORS AND PRODUCTS LIST

A. BID CATEGORY NO. 01 – GENERAL TRADES

Add:

Section	01 51 30	Temporary Heating, Ventilation, and Cooling
Section	01 51 50	Temporary Water
Section	01 51 80	Temporary Fire Protection

D. SPECIFICATION SECTION 01 23 00 – ALTERNATES

Add the following Alternate:

1. Alternate Bid No. 01 – State the cost to provide Baseball Outfield: Solid Panel “Batter’s Eye” as outlined in Spec Section 11 68 38.

E. SPECIFICATION SECTION 01 32 00 – SCHEDULES AND REPORTS

a. 1.03 GUIDELINE SCHEDULE

Add:

1. See Guideline Schedule attached.
2. See revised Site Logistics Plan.

(Amended for Kalamazoo Public Schools)

CONTRACTOR'S BID FOR PUBLIC WORKS

**Kalamazoo Public Schools
Loy Norrix High School Athletics
(Kalamazoo Public Schools)
(Kalamazoo County, MI)**

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, **Loy Norrix High School Athletics**, in accordance with Plans and Specifications prepared by **TowerPinkster, 242 East Kalamazoo Avenue, Kalamazoo, MI 49007**, 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 one hundred and twenty (120) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said one hundred and twenty (120) 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. 01 – State the cost to provide Baseball Outfield: Solid Panel “Batter’s Eye” as outlined in Spec Section 11 68 38.

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

UNIT PRICES

Unit Price No. 1 – Supplemental Excavation & Satisfactory Soil Fill:

1. Description: Unit price for the removal of unforeseen unsatisfactory soil and replacement with satisfactory soil, according to Section 31 2000 "Earth Moving."
2. Unit of Measurement: 100 Cubic yards of soil excavated, based on in-place surveys of volume before and after removal.

_____ \$/Per Cubic Yard

Unit Price No. 2 - Supplemental Excavation & Engineered Fill:

1. Description: Unit price for the removal of unforeseen unsatisfactory soil and replacement with engineered fill, according to Section 31 2000 "Earth Moving."
2. Unit of Measurement: 100 Cubic yards of soil excavated, based on in-place surveys of volume before and after removal

_____ \$/Per Cubic Yard

Unit Price No. 3 – Excess Soils Removal:

1. Description: Unit price for the removal and trucking of excess soils unable to be used on site.
2. Unit of Measurement: 100 Cubic yards of soil excavated, based on in-place surveys of volume before and after removal

_____ \$/Per Cubic Yard

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 **KALAMAZOO PUBLIC 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 **KALAMAZOO PUBLIC 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 **KALAMAZOO PUBLIC 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

SECTION 01 51 30 - TEMPORARY HEATING, VENTILATION AND COOLING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division-1 Specification Sections, apply to work of this Section.

1.02 TEMPORARY HEAT

- A. Temporary heat shall be provided for enclosed building spaces as required for installation of any material and for working conditions required by any trade or trades working on the Project. This does not include heat or protection as required by Section 01 50 50, Paragraph 1.02.A.1. The minimum period that temporary heat must be made available for enclosed spaces (not permanently heated) begins November 1 and ends May 15th each heating season.
- B. An enclosed building space shall be defined as having a roof and all exterior openings closed by either temporary or permanent means.
- C. The following temperatures shall be maintained:
 - 1. 50° F minimum during working hours and 40° F during non-working hours.
 - 2. For a period of seven (7) days prior to interior finishing (wall coverings, resilient tile, acoustical ceilings, etc.), and until final acceptance or occupancy by the Owner, spaces shall be kept 60° F to 75° F during working hours and 60° F minimum at all other times.
- D. After the building or any designated portion has been enclosed and temporary heat is required, the Contractor shall provide and maintain all temporary heating systems using one or more of the following methods:
 - 1. Portable heaters: smokeless type, thermostatically controlled, electric blower operated, of type approved by fire and health authorities for use without vents. This Contractor shall include necessary electrical wiring and controls. Relocate heaters and components as necessary to prevent interference with continuing construction.
 - 2. Temporary heating system consisting of approved electric or gas fired unit heaters, direct fired make-up air units, boilers and unit heaters or other similar approved equipment. All such units shall be properly vented to the exterior, piped, wired, thermostatically controlled and have all required safety controls.
 - 3. The permanent heating system and its component parts may be used for temporary heat where available. The building shall be in the finishing stages and the permanent heating system must be installed as designed when used to supply temporary heat. This shall include permanent power wiring connections to a permanent power source. Provide all phases of operation,

maintenance, control and items of like nature during the time the permanent system is used to furnish temporary heat.

- a. At the termination of the use of the permanent system as a temporary heating system, the system shall be thoroughly cleaned, equipped with new filters, new belts if required, etc., and any damage repaired or replaced.
- b. The use of the permanent heating system for temporary heat shall not affect the warranty period which begins on the date of Substantial Completion of the Project.
- c. Refer to Division 23 for other requirements that may affect the use of the permanent system.

1.03 TEMPORARY VENTILATION AND COOLING

- A. Temporary ventilation and cooling shall be provided for enclosed building spaces as required for installation of finish building materials. The minimum period that temporary ventilation and cooling must be made available for building spaces receiving finish materials begins May 15th and ends September 15th each cooling season.
 1. For a period of seven (7) days prior to interior finishing (wall coverings, resilient tile, acoustical ceilings, etc) maintain a maximum of 75°F in that respective space until final acceptance or occupancy by the Owner.
- B. The permanent ventilation and cooling system components may be used for temporary ventilation and cooling where available. The building shall be in the finishing stages and the permanent system must be installed as designed when used to supply temporary ventilation or cooling. This shall include permanent wiring connections to a permanent power source. Provide all phases of operation, maintenance, control, and items of like nature during the time the permanent system is used to furnish temporary ventilation or cooling.
 1. At the termination of the use of the permanent system as a temporary ventilation or cooling system, the system shall be thoroughly cleaned, equipped with new filters, new belts if required, etc., and any damage repaired or replaced.
 2. The use of the permanent system for temporary ventilation or cooling shall not affect the warranty period which begins on the date of Substantial Completion of the Project.
 3. Refer to Division 23 for other requirements that may affect the use of the permanent system.

1.04 COST OF FUEL AND ELECTRIC POWER

- A. The cost of all fuel and power consumed for temporary heat, ventilation and cooling will be paid by the Owner. Equipment and tank rental is the responsibility of this Contractor.
- B. Refer to Section 01 21 00 - Allowances for a possible fuel allowance.

1.05 MAINTENANCE AND REMOVALS

- A. All portions of temporary heating, ventilation and cooling systems, not part of the permanent systems, shall be removed when the period of usefulness is over. Relocate components as required to prevent interference with continuing construction. Restore any compromised surfaces and patch penetrations. Keep temporary air filters in place and change as often as necessary. Install a clean set of permanent filters prior to air balancing.

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 51 30

SECTION 01 51 50 - TEMPORARY WATER

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division-1 Specification Sections, apply to work of this Section.

1.02 TEMPORARY CONSTRUCTION WATER

- A. Provide temporary water service at a convenient location, maintain the service and remove same at completion.
 - 1. Tie-in may be made to the Owner's existing system.
 - 2. The Owner will pay for all temporary construction water.
- B. If it is not practical to tie into Owner's existing water service, the Contractor shall make arrangements for a temporary service as required, pay for all water usage, and remove temporary service before final clean-up of the Project.

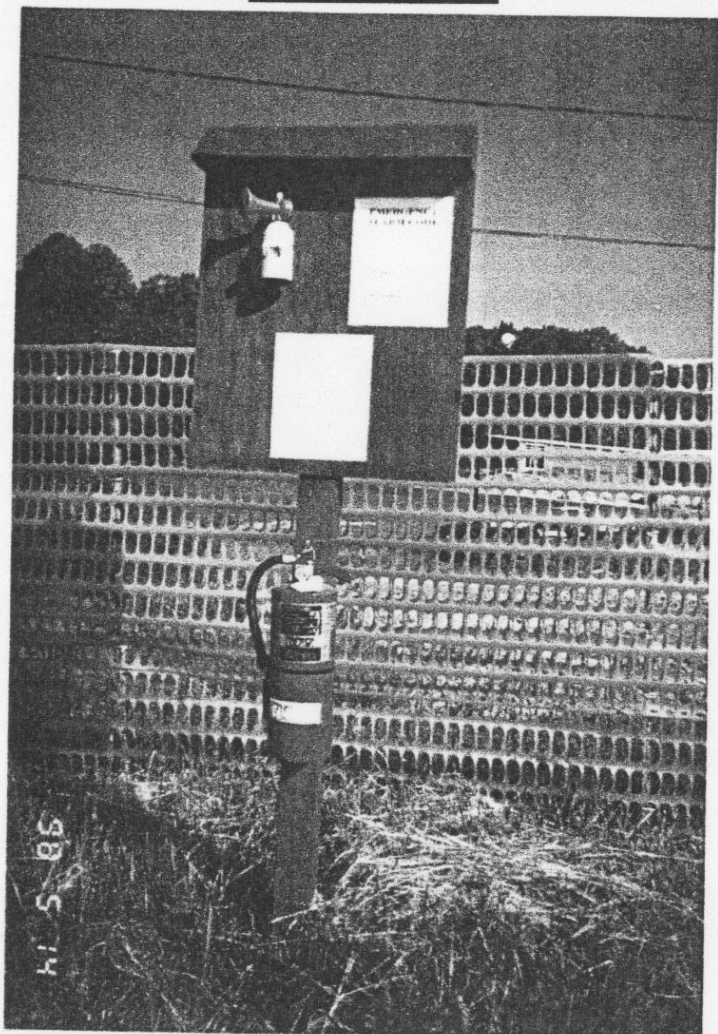
1.03 DRINKING WATER

- A. Provide chilled potable drinking water for all construction personnel in general location.

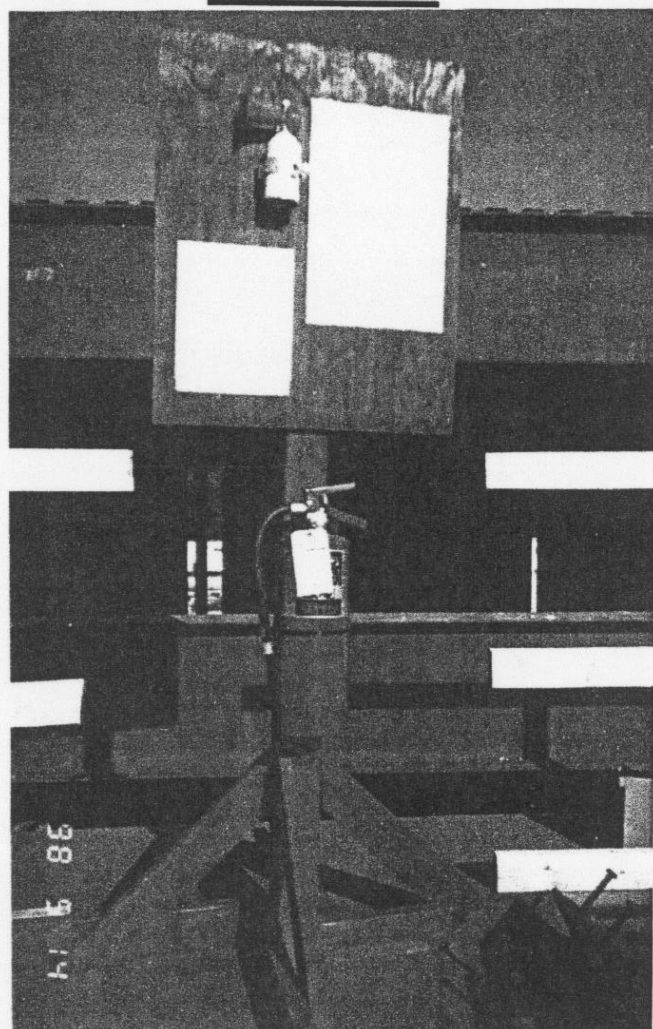
PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 51 50


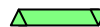



Exterior



Interior



Activity Name	Original Duration	Start	Finish	2025												2026		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
KPS Loy Norrix HS Athletics	196	27-Jan-25	30-Oct-25	30-Oct-25, KPS Loy Norrix HS Athletics														
Project Administration	196	27-Jan-25	30-Oct-25	30-Oct-25, Project Administration														
Bid Phase	16	27-Jan-25*	17-Feb-25	Bid Phase														
Pre-Bid Meeting	1	05-Feb-25*	05-Feb-25	Pre-Bid Meeting														
Bids Due	1	18-Feb-25	18-Feb-25	Bids Due														
Recommendation/Award	4	19-Feb-25	24-Feb-25	Recommendation/Award														
Exams	2	05-Mar-25*	06-Mar-25	Exams														
Notice To Proceed	1	07-Mar-25*	07-Mar-25	Notice To Proceed														
Submittals	120	10-Mar-25	26-Aug-25	Submittals														
Color Charts	25	10-Mar-25	11-Apr-25	Color Charts														
Spring Break	5	31-Mar-25*	04-Apr-25	Spring Break														
Procure Band Tower	60	21-Apr-25	15-Jul-25	Procure Band Tower														
Procure Turf	60	21-Apr-25	15-Jul-25	Procure Turf														
Procure Electrical Equipment	60	21-Apr-25	15-Jul-25	Procure Electrical Equipment														
Mobilization	2	01-May-25	02-May-25	Mobilization														
Graduation	1	28-May-25*	28-May-25	Graduation														
Exams	2	05-Jun-25*	06-Jun-25	Exams														
Band Tower Punchlist	1	25-Aug-25	25-Aug-25	Band Tower Punchlist														
Toilet Room Punchlist	1	25-Aug-25	25-Aug-25	Toilet Room Punchlist														
Correct Band Tower Punchlist	21	26-Aug-25	24-Sep-25	Correct Band Tower Punchlist														
Correct Toilet Room Punchlist	21	26-Aug-25	24-Sep-25	Correct Toilet Room Punchlist														
Turf Punchlist	2	03-Sep-25	04-Sep-25	Turf Punchlist														
Correct Turf Punchlist	21	05-Sep-25	03-Oct-25	Correct Turf Punchlist														
Press Box Punchlist	1	29-Sep-25	29-Sep-25	Press Box Punchlist														
Correct Press Box Punchlist	21	30-Sep-25	28-Oct-25	Correct Press Box Punchlist														
Final Inspection	1	06-Oct-25	06-Oct-25	Final Inspection														
Owner Occupy	1	07-Oct-25	07-Oct-25	Owner Occupy														
Demobilize	2	29-Oct-25	30-Oct-25	Demobilize														
Milestones	127	01-May-25	29-Oct-25	29-Oct-25, Milestones														
Start Construction	1	01-May-25	01-May-25	Start Construction														
Football Field Completion	1	15-Sep-25	15-Sep-25	Football Field Completion														
Project Completion	1	29-Oct-25	29-Oct-25	Project Completion														
Pre-Installation Meetings	59	30-Jun-25	22-Sep-25	22-Sep-25, Pre-Installation Meetings														
Site Clearing/Earth Moving	1	30-Jun-25	30-Jun-25	Site Clearing/Earth Moving														

 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Summary



Activity Name	Original Duration	Start	Finish	2025												2026		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Band Tower	1	16-Jul-25	16-Jul-25	x Band Tower														
Cast In Place Concrete	1	30-Jul-25	30-Jul-25	x Cast In Place Concrete														
Synthetic Turf	1	05-Aug-25	05-Aug-25	x Synthetic Turf														
Metal Soffit Panels	1	05-Sep-25	05-Sep-25	x Metal Soffit Panels														
Aluminum Windows	1	22-Sep-25	22-Sep-25	x Aluminum Windows														
Sitework	140	17-Mar-25	01-Oct-25	▲ 01-Oct-25, Sitework														
Football Field	94	01-May-25	12-Sep-25	▲ 12-Sep-25, Football Field														
Soil Erosion and Sediment Control	5	01-May-25*	07-May-25	▲ Soil Erosion and Sediment Control														
Construction Entrance	2	01-May-25*	02-May-25	x Construction Entrance														
Track Protection	2	05-May-25	06-May-25	x Track Protection														
Temporary Fencing	3	08-May-25	12-May-25	x Temporary Fencing														
Demolition	5	13-May-25	19-May-25	▲ Demolition														
Strip Topsoil/Spoils	10	20-May-25	03-Jun-25	▲ Strip Topsoil/Spoils														
Replace Handrails	15	20-May-25	10-Jun-25	▲ Replace Handrails														
Remove Existing Storm Lines/Structures	3	04-Jun-25	06-Jun-25	x Remove Existing Storm Lines/Structures														
Fill To Subgrade	7	09-Jun-25	17-Jun-25	▲ Fill To Subgrade														
Flowable Fill Storm Lines	2	09-Jun-25	10-Jun-25	x Flowable Fill Storm Lines														
Perimeter Drain Tile	5	18-Jun-25	24-Jun-25	▲ Perimeter Drain Tile														
Concrete Turf Anchor	7	18-Jun-25	26-Jun-25	▲ Concrete Turf Anchor														
Flat Drain	10	25-Jun-25	09-Jul-25	▲ Flat Drain														
Aggregate Drainage Stone	10	10-Jul-25	23-Jul-25	▲ Aggregate Drainage Stone														
Adjust Rims of Existing Structures	3	24-Jul-25	28-Jul-25	▲ Adjust Rims of Existing Structures														
Clean/Vac Drains and Structures	3	24-Jul-25	28-Jul-25	▲ Clean/Vac Drains and Structures														
Fencing	10	24-Jul-25	06-Aug-25	▲ Fencing														
Shock Pad	5	29-Jul-25	04-Aug-25	▲ Shock Pad														
Synthetic Turf	15	05-Aug-25	25-Aug-25	▲ Synthetic Turf														
Rubber/Sand Fill	5	26-Aug-25	02-Sep-25	▲ Rubber/Sand Fill														
Remove Track Protection	3	03-Sep-25	05-Sep-25	x Remove Track Protection														
Site Restoration	5	08-Sep-25	12-Sep-25	▲ Site Restoration														
Baseball Field	83	02-Jun-25	26-Sep-25	▲ 26-Sep-25, Baseball Field														
Soil Erosion and Sediment Control	5	02-Jun-25*	06-Jun-25	▲ Soil Erosion and Sediment Control														
Construction Entrance	2	02-Jun-25*	03-Jun-25	x Construction Entrance														
Temporary Fencing	3	04-Jun-25	06-Jun-25	x Temporary Fencing														
Demolition	5	09-Jun-25	13-Jun-25	▲ Demolition														
Stripping/ Rough Grading	10	16-Jun-25	27-Jun-25	▲ Stripping/ Rough Grading														

-  Actual Work
-  Remaining Work
-  Critical Remaining Work
-  Milestone
-  Summary



16-Apr-25	Original Duration	Start	Finish	2025												2026							
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
Ballstop Netting System	4	30-Jun-25	03-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Place/Grade Clean Fill	5	30-Jun-25	07-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Underdrain System	7	08-Jul-25	16-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Bricks/Infield Mix	10	17-Jul-25	30-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Fencing	10	17-Jul-25	30-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Warning Track Mix	2	31-Jul-25	01-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Rough Grade Topsoil	5	31-Jul-25	06-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Field Events	5	04-Aug-25	08-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Irrigation	5	07-Aug-25	13-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Final Grade Topsoil	3	14-Aug-25	18-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Sod	2	19-Aug-25	20-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Site Concrete	10	10-Sep-25	23-Sep-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Site Restoration	2	24-Sep-25	25-Sep-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Dugouts	32	08-Jul-25	20-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Excavation	3	08-Jul-25	10-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Footings	3	11-Jul-25	15-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Foundations	4	16-Jul-25	21-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Backfill Foundations	2	22-Jul-25	23-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
CMU Walls	4	24-Jul-25	29-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Rough in Walls	4	24-Jul-25	29-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
SOG	2	30-Jul-25	31-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Roof Framing/Blocking	5	01-Aug-25	07-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Sheathing/Roofing	3	08-Aug-25	12-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Frame Benches/Shelving	3	13-Aug-25	15-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Painting	1	18-Aug-25	18-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Door/Hardware	2	19-Aug-25	20-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Press Box	63	30-Jun-25	26-Sep-25									▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Excavation	5	30-Jun-25	07-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Footings	4	08-Jul-25	11-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Concrete Foundation Walls	6	14-Jul-25	21-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Backfill/Compact Foundations	5	22-Jul-25	28-Jul-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
CMU Walls	15	29-Jul-25	18-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Electrical Rough In Walls	15	29-Jul-25	18-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Wood Framing	6	19-Aug-25	26-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			
Spiral Staircase	4	19-Aug-25	22-Aug-25									▲	▲	▲	▲	▲	▲	▲	▲	▲			

	Actual Work
	Remaining Work
	Critical Remaining Work
	Milestone
	Summary



Activity Name	Original Duration	Start	Finish	2025												2026						
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
				Sheathing	3	27-Aug-25	29-Aug-25															
Roofing	3	02-Sep-25	04-Sep-25																			▽ Roofing
Electrical Rough In Ceiling	4	02-Sep-25	05-Sep-25																			▽ Electrical Rough In Ceiling
Siding/Soffit Panels	3	05-Sep-25	09-Sep-25																			▽ Siding/Soffit Panels
SOG	2	05-Sep-25	08-Sep-25																			▽ SOG
Permanent Power	1	08-Sep-25	08-Sep-25																			▽ Permanent Power
Drywall	6	09-Sep-25	16-Sep-25																			▽ Drywall
Painting	3	17-Sep-25	19-Sep-25																			▽ Painting
Metal Countertops	2	22-Sep-25	23-Sep-25																			▽ Metal Countertops
Doors/Windows	3	22-Sep-25	24-Sep-25																			▽ Doors/Windows
Flooring	3	24-Sep-25	26-Sep-25																			▽ Flooring
Parking Lot	140	17-Mar-25	01-Oct-25																			▽ 01-Oct-25, Parking Lot
Soil Erosion and Sediment Control	2	17-Mar-25	18-Mar-25																			▽ Soil Erosion and Sediment Control
Construction Entrance	2	19-Mar-25	20-Mar-25																			▽ Construction Entrance
Temporary Fencing	1	21-Mar-25	21-Mar-25																			▽ Temporary Fencing
Demolition/Clearing	7	24-Mar-25	01-Apr-25																			▽ Demolition/Clearing
Cut/Fill Subgrade	4	02-Apr-25	07-Apr-25																			▽ Cut/Fill Subgrade
Underground Utilitites	4	08-Apr-25	11-Apr-25																			▽ Underground Utilitites
Aggregate Base	3	14-Apr-25	16-Apr-25																			▽ Aggregate Base
Concrete Curbs	4	08-Sep-25	11-Sep-25																			▽ Concrete Curbs
Final Grade Aggregate Base	5	08-Sep-25	12-Sep-25																			▽ Final Grade Aggregate Base
Light Pole Bases/Lights	6	12-Sep-25	19-Sep-25																			▽ Light Pole Bases/Lights
Topsoil	2	22-Sep-25	23-Sep-25																			▽ Topsoil
Asphalt Paving	2	24-Sep-25	25-Sep-25																			▽ Asphalt Paving
Striping	1	26-Sep-25	26-Sep-25																			▽ Striping
Fencing	3	29-Sep-25	01-Oct-25																			▽ Fencing
Seeding/Landscaping	3	29-Sep-25	01-Oct-25																			▽ Seeding/Landscaping
Band Tower	28	16-Jul-25	22-Aug-25																			▽ 22-Aug-25, Band Tower
Excavation	4	16-Jul-25	21-Jul-25																			▽ Excavation
Footings	5	22-Jul-25	28-Jul-25																			▽ Footings
Structural Steel	4	29-Jul-25	01-Aug-25																			▽ Structural Steel
Stairs	5	04-Aug-25	08-Aug-25																			▽ Stairs
Security Screens	5	11-Aug-25	15-Aug-25																			▽ Security Screens
Bollards	2	18-Aug-25	19-Aug-25																			▽ Bollards
Site Concrete	3	20-Aug-25	22-Aug-25																			▽ Site Concrete

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- Summary



Activity Name	Original Duration	Start	Finish	2025												2026		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Toilet Room Building	63	04-Jun-25	02-Sep-25	▲ 02-Sep-25, Toilet Room Building														
Excavation	3	04-Jun-25	06-Jun-25	▲ Excavation														
Footings	3	09-Jun-25	11-Jun-25	▲ Footings														
Foundations	2	12-Jun-25	13-Jun-25	▲ Foundations														
Backfill Foundations	2	16-Jun-25	17-Jun-25	▲ Backfill Foundations														
CMU Walls	8	18-Jun-25	27-Jun-25	▲ CMU Walls														
Rough in CMU Walls	8	18-Jun-25	27-Jun-25	▲ Rough in CMU Walls														
U/G MEP	3	30-Jun-25	02-Jul-25	▲ U/G MEP														
SOG	3	03-Jul-25	08-Jul-25	▲ SOG														
Set Trusses	3	09-Jul-25	11-Jul-25	▲ Set Trusses														
Sheathing	3	14-Jul-25	16-Jul-25	▲ Sheathing														
Pour Pad/Set Transformer	3	16-Jul-25	18-Jul-25	▲ Pour Pad/Set Transformer														
Siding/Soffits/Fascia	5	17-Jul-25	23-Jul-25	▲ Siding/Soffits/Fascia														
Roofing	2	24-Jul-25	25-Jul-25	▲ Roofing														
Rough in Ceiling	4	28-Jul-25	31-Jul-25	▲ Rough in Ceiling														
Framing/Insulation/Drywall	8	01-Aug-25	12-Aug-25	▲ Framing/Insulation/Drywall														
Painting	2	13-Aug-25	14-Aug-25	▲ Painting														
Permanent Power	2	13-Aug-25	14-Aug-25	▲ Permanent Power														
Light Fixtures	3	15-Aug-25	19-Aug-25	▲ Light Fixtures														
Doors/Hardware	2	15-Aug-25	18-Aug-25	▲ Doors/Hardware														
Permanent HVAC	1	15-Aug-25	15-Aug-25	▲ Permanent HVAC														
Flooring/Base	3	20-Aug-25	22-Aug-25	▲ Flooring/Base														
Plumbing Fixtures	4	25-Aug-25	28-Aug-25	▲ Plumbing Fixtures														
Electrical Trim	3	25-Aug-25	27-Aug-25	▲ Electrical Trim														
Toilet Partitions/Accessories	2	29-Aug-25	02-Sep-25	▲ Toilet Partitions/Accessories														

	Actual Work
	Remaining Work
	Critical Remaining Work
	Milestone
	Summary



TSC Site Office

START MAY 1, 2025

Track Protection Revised Location

START JUNE 2, 2025

Construction Staging Area (Mechanical) Temporary Fencing and Gates

Construction Access Road

START PARKING AREA MARCH 17, 2025

Construction Staging Area (Sitework)



ADDENDUM NO. 1

DATE OF ISSUANCE:	February 7, 2025
PROJECT:	Loy Norrix High School Athletics Project 606 E. Kilgore Road Kalamazoo, MI 49001
OWNER:	Kalamazoo Public Schools
ARCHITECT'S PROJECT NO.:	23-625.00
ORIGINAL BID ISSUE DATE:	January 24, 2025

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **5** pages of text and the following documents:

- Bidding Documents: **NA**
- Contract Conditions: **NA**
- Specification Sections: **01 2200, 01 2300, 11 6842, 22 400**
- Drawings: **C100, C101, C102, C200, C202, C302, C400, L501, L502, L503, L507, L508, L512, L526, L534, M 501, ES100, ES102, ES103, and E401**

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - 01 2200 Unit Prices

Refer to reissued Specification section 01 2200 Unit Prices for additional unit prices to be added to the bid and bid form.

ADD-1 Item No. S-2 - 01 2300 Alternates

Refer to reissued Specification section 01 2300 Alternates for corrected alternate to be added to the bid and bid form.

ADD-1 Item No. S-3 - 22 4000, Plumbing Fixtures – Updated drinking fountain

Refer to reissued Specification 22 4000 Plumbing Fixtures for updated drinking fountain.

ADD-1 Item No. S-4 - Netting Poles

Refer to reissued Specification 11 6842 Protective Netting System

Revised poles from metal to wood.

CHANGES TO DRAWINGS

ADD-1 Item No. D-1 - Revision to Electrical Distribution

Refer to Sheet(s): ES100

Eliminated panel H1.

Revised location of panel P1.

Revised routing of power for the toilet room buildings. This building is now fed out of panel P1.

Revised circuit number for parking lot lighting.

ADD-1 Item No. D-2 - Revision to Electrical Distribution

Refer to Sheet(s): ES102

Revised location of panel P1.

ADD-1 Item No. D-3 - Added Electrical Grounding Detail

Refer to Sheet(s): ES103

Added grounding detail for new panel P1 in place of existing.

ADD-1 Item No. D-4 - Revisions to One-Line Diagrams and Feeder Schedule.

Refer to Sheet(s): E401

Revised demolition and new electrical one-line diagrams. TX-RPT is now fed out of panel P1.

Revised feeder schedule for TX-RPT 'fed from' panelboard.

Panel P1 and PA are now shown as new panels in place of existing.

Noted for new metering on panel P1.

Added some additional demolition scope on the demolition electrical one-line diagram.

- Demolition and removal of abandoned disconnects along with associated conduit and wire back to source.
- Remove existing 30A/2P feed between panel PA and the existing dugouts along with all associated conduit and wire back to source.
-

ADD-1 Item No. D-5 - Revision to Water Service Detail

Refer to Sheet(s): M 501

Revised water service detail to pitch piping back to drain pit in coordination with Civil.

ADD-1 Item No. D-6 - Track Protection

Refer to Sheet(s): L501, L502, L503

Relocated Track Protection to the Southwest of the field.

ADD-1 Item No. D-7 - Lacrosse Markings

Refer to Sheet(s): L 502, L503

Revised intent to include Lacrosse lines in lieu of tick marks.

ADD-1 Item No. D-8 - Goal Post

Refer to Sheet(s): L507, L508

Added a single football goal post to the practice field.

ADD-1 Item No. D-9 - Irrigation

Refer to Sheet(s): L512

Added supplemental information for the schematic irrigation design.

ADD-1 Item No. D-10 - Lacrosse Details

Refer to Sheet(s): L526

Added Lacrosse lines details and deleted references to tick marks.

ADD-1 Item No. D-11 - Netting Poles

Refer to Sheet(s): L534

Revised the poles for the protective netting system to be wood.

ADD-1 Item No. D-12 - Existing Drive Removal

Refer to Sheet(s): C100

Added pavement removal hatching and mill and overlay hatching to legend.

Added removal of 3 feet of the existing lane adjacent to proposed curb improvements to comply with City of Portage requirements for new drive installation.

Added mill and overlay of the lane adjacent to proposed drive to comply with City of Portage requirements for new drive installation.

Added detail for 2" mill and overlay / drive cut improvements.

ADD-1 Item No. D-13 - Goal Posts

Refer to Sheet(s): C101, C102, C202

Added note indicating the removal of existing goal post structures and any concrete. Repair removal area with soil. Refer to L Plan Sheets for additional notes.

Added note calling out new goal post and to coordinate with L Plan Sheets.

ADD-1 Item No. D-14 - Proposed Drive

Refer to Sheet(s): C200

Added notes regarding 3' of HMA to be replaced with new drive in accordance with the City of Portage.

Added General Note #5.

Added mill and overlay hatching to Legend.

Removed rebar call out on MDOT F4 concrete curb and gutter detail.

ADD-1 Item No. D-15 - Band Tower Concrete Pad

Refer to Sheet(s): C202, C302

Expanded concrete pad to connect to existing sidewalk adjacent to tennis courts.

Added leaching basin LB-8 adjacent to concrete pad.

Added storm structure table including information about LB-8.

Revised grading of concrete pad and grading to LB-8.

ADD-1 Item No. D-16 - Restroom Winterizing

Refer to Sheet(s): C200, C400

Added Letter Note "Q" to Site Plan & Utility Notes.

Added water manhole symbol to sheet C200.

Added water manhole drain pit detail to sheet C400.

ADD-1 Item No. D-17 - SESC Notes

Refer to Sheet(s): C302

Added 29T Inlet protection fabric drop notes to Soil Erosion and Sediment Control Notes

END OF ADDENDUM.

SECTION 11 6842 – PROTECTIVE NETTING SYSTEM – ADDENDUM 1

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 03 3000 Cast In Place Concrete

1.2 SCOPE

- A. The work under this section of the specifications shall consist of furnishing all labor, materials and equipment necessary for a complete protective netting system as detailed.

1.3 QUALITY ASSURANCE

- A. Warranty Guarantee: The Contractor and any Sub-Contractors hereunder guarantee their respective work against defective materials or workmanship for a period of two (2) years from date of filing notice of completion and acceptance by Owner. Standard manufacturer's warranty shall apply to products installed.
- B. Materials delivered to the site shall be examined for damage or defects. Any defects shall be noted and reported to the Owner's representative. Replacements, if necessary, shall be immediately re-ordered, so as to minimize any conflict with the construction schedule. Sound materials shall be stored above ground under protective cover or indoors.
- C. All protective netting materials and hardware shall be a complete system and provided by a single manufacturer. Individual components from various manufacturers making up a protective netting system will not be accepted.

1.4 SUBMITTALS

- A. Submit manufacturer literature, identifying the particular item to be installed. Manufacturer information should include photographs, recommended installation and foundation requirements and applicable technical information.

PART 2 - PRODUCTS

2.1 BALL SAFETY NETTING SYSTEM – WOOD POLES

- A. Pole length, including buried portion and necessary foundation, shall be sized to meet forty foot (40') minimum mounting heights as shown on plan.
- B. Class 1 CCA Treated Southern Yellow Pine manufactured to ANSI O5.1 specification. Treated with preservatives to the latest American Wood Preservers Association standards to ensure rot and decay prevention

- C. Size: Length, above grade, shall be sized as shown on plan. Assembly shall also be able to withstand 80 mph winds with gust factor of 1.3.
 - a. Minimum diameter at 6 feet from bottom of pole: 14" Top dia min: 8"
 - b. Minimum diameter at top of pole: 8"
- D. Soil Conditions: The design criteria for these specifications are based on soil conditions with 3,000 psf or greater lateral load. It shall be the Contractor's responsibility to notify the Owner's representative of soil conditions other than the design criteria. The Owner shall then be responsible and absorb the cost to provide pole bases for soil conditions less than 3,000 psf.
- E. Accessories: The following shall be included with each ball safety system:
 - 1. Stainless steel assembly hardware
 - 2. Shell block pulley system
 - 3. 9.0 inch net guide rings

2.2 NETTING

A. Products Specifications:

- | | |
|----------------------|---------------------------|
| 1. Twine: | #36 Nylon |
| 2. Mesh Size: | 1-3/4" |
| 3. Mesh Style: | Square |
| 4. Color: | Black |
| 5. Finish: | UV-Stabilized, Heat-Set |
| 6. Flame Retardancy: | None |
| 7. Break Strength: | 180 lbs. |
| 8. Weight: | 1.75 lbs. per 100 sq. ft. |
| 9. Border/Edging: | 1/4" MFP Rope |

- B. Size: As noted on drawings.

2.3 ACCESSORIES

- A. All accessories (pulleys, clamps, clips, winches, fastener, etc.) are to be hot dipped galvanized or stainless steel.
- B. Cabling to be 1/4" stainless steel aircraft cable with stainless steel hog ties to attach net.

PART 3 - EXECUTION

3.1 POLE INSTALLATION

- A. Excavation: The Contractor may excavate by any means he prefers, insofar as these methods conform to these specifications and manufacturer's recommendations. Holes shall be excavated with diameters not less than eight (8) inches greater than the largest dimension of poles being installed. Required depth of pole holes shall be 10% of overall pole length plus not less than two (2) feet or more than five (5) feet.
1. The bottom of the pole holes shall be on undisturbed earth. If a pole hole is excavated to a depth greater than required, it shall be backfilled with specified crushed rock, placed in six (6) inch layers, and thoroughly machine tamped to approximate density of surrounding soil.
- B. Backfill: The backfill for all pole holes shall be entirely crushed rock placed from the bottom of the pole hole to the distance of 18 inches below the top of the hole and topped with excavated soil. All backfill shall be placed in six (6) inch layers and each layer shall be thoroughly tamped to approximate density of surrounding soil. The soil backfill shall be banked and tamped around the poles to a height of 12 inches above the natural ground line.
1. The crushed rock backfill shall be Class A road limestone which consists of rock grades of the following sieve analysis:
 - 100% by weight - pass 1 inch sieve
 - 60-90% by weight - pass ½ inch sieve
 - 40-60% by weight - pass No 4 sieve
 - 25-50% by weight - pass No 8 sieve
 - 20-40% by weight - pass No 16 sieve
 - 5-15% by weight - pass No 200 sieve
 2. Percentage of wear, when tested according to AASHTO T96, Grading B, shall not exceed 45.
 3. Subject to Owner's approval, surplus material shall be uniformly spread at the site or removed and disposed of at Contractor's expense. Care shall be taken that the spreading of surplus material does not result in the channeling of run-off water past pole locations.
- C. Variance: If crushed rock is not readily available, poles shall be set and backfilled with approved MDOT Class II sand or with materials and procedures in accordance with standard specifications.
- D. All cabling to be double clamped.
- E. Attach netting to horizontal top cable and side cables using 5/16" x 2 3/8" stainless spring snap ring. Attach bottom edge to fence fabric using reusable type cable ties.

3.2 CLEAN UP AND DISPOSAL

- A. Remove from the site all equipment, materials, and debris resulting from construction work including this section. Leave work area neat and clean and in a condition acceptable by the Landscape Architect and Owner. All work shall be complete, ready for use, at the time of final acceptance.

END OF SECTION 11 6842

SECTION 01 2200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for unit prices.
- B. Related Sections include the following:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 2. Division 01 Section "Quality Requirements" for general testing and inspecting requirements.

1.2 DEFINITIONS

- A. Unit price is a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.3 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A list of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

A. Unit Price No. 1 - Supplemental Fill:

1. Description: Unit price for the removal of unforeseen unsuitable soil and replacement with satisfactory soil, including procedures for measurement and payment, according to Division 31 Section "Earth Moving."
2. Unit of Measurement: Cubic yard.

B. Unit Price No. 2 - Engineered Fill:

1. Description: Unit price for the removal of unforeseen unsuitable soil and replacement with engineered fill, including procedures for measurement and payment, according to Division 31 Section "Earth Moving."
2. Unit of Measurement: Cubic yard.

C. Unit Price No. 3 – Excess Soils Removal

1. Description: Unit price for the removal and trucking of excess soils unable to be used on site.
2. Unit of Measurement: Cubic Yard

END OF SECTION 01 2200

SECTION 01 2300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

EXECUTION

1.4 SCHEDULE OF ALTERNATES

- A. Alternate No. 1 – Baseball Outfield: Solid Panel “Batter’s Eye” as outlined in Spec Section 11 6838
 - 1. Base Bid: Provide Baseball Outfield without “Batters Eye” equipment.
Alternate: Provide Baseball Outfield with “Batters Eye” as outlined in Spec Section 11 6838

END OF SECTION 01 2300

SECTION 22 4000 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes commercial plumbing fixtures and related components.
- B. Related Sections include the following:
 - 1. Division 05 Section "Metal Fabrications" for stainless steel under lavatory protection shields.
 - 2. Division 10 Section "Toilet, Bath, and Laundry Accessories" for plastic under lavatory protection shields.
 - 3. Division 22 Section "Domestic Water Piping Specialties" for mixing valves and specialty fixtures not included in this Section.

1.2 DEFINITIONS

- A. Barrier-Free Fixture: Plumbing fixture that can be approached, entered, and used by people with disabilities.
- B. Fitting: Device that controls the flow of water into or out of the plumbing fixture. Piping and general-duty valves are included where indicated. Fittings specified in this Section include:
 - 1. Supplies and stops.
 - 2. Faucets and spouts.
 - 3. Drains and tailpieces.
 - 4. Traps and waste pipes.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of plumbing fixture indicated. Include selected fixture and trim, fittings, accessories, appliances, appurtenances, equipment, and supports. Indicate materials and finishes, dimensions, construction details, and flow-control rates.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain plumbing fixtures, faucets, and other components of each category through one source from a single manufacturer.

1. Exception: If fixtures, faucets, or other components are not available from a single manufacturer, obtain similar products from other manufacturers specified for that category.
- B. Regulatory Requirements: Comply with the following:
 1. Michigan Building Code (ANSI117) for plumbing fixtures for people with disabilities.
 2. Michigan Plumbing Code.
 3. Local authority having jurisdiction.
- C. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
- D. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.
- E. NSF Standard: Comply with NSF 372, "Drinking Water System Components – Lead Content" for all components that will be in contact with potable water.
- F. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with specified requirements, provide commercial grade plumbing fixtures by one of the following:
 1. Lavatories, Water Closets, Urinals, Service Sinks:
 - a. American Standard
 - b. Kohler
 - c. Zurn
 - d. Mansfield
 - e. Sloan
 2. Mop Basins:
 - a. Fiat
 - b. Florestone
 - c. Mustee
 - d. Swan
 - e. Zurn
 3. Faucets:
 4. Flush Valves:
 - a. Chicago Faucet
 5. Water Closet Seats:
 - a. Sloan
 - b. Zurn

- a. Bemis
 - b. Church
 - c. Olsonite
 - d. American Standard
 - e. Centoco
 - f. Eljer
 - g. Kohler
6. Water Coolers
- a. Elkay
7. Fixture Supports:
- a. Josam
 - b. Wade
 - c. Zurn
 - d. Jay R. Smith
 - e. MIFAB
 - f. Watts.

2.2 WATER CLOSETS

- A. WC-1 Water Closets (Barrier Free, Floor Mounted): Vitreous china, back outlet, floor mounted, 1.28 gallon siphon jet elongated bowl, white in color, with 1 1/2" top spud. American Standard "Huron" Model 3312.001 or equivalent. Provide wall flange, brass bolts, nuts, washers and bolt caps. Provide TS-1 seat and FV-1 flush valve as specified in the Articles below.

2.3 URINALS

- A. UR-1 Urinals (Wall Mounted): Vitreous china, washout 0.5 gallon wall urinal, white in color, with integral extended shields, flushing rim and trap, 3/4" top spud, 2" I.P.S. female outlet connection and supporting hanger. American Standard "Washbrook" Model 6590.001 or equivalent. Provide carriers and FV-2 flush valve as specified in the Articles below. (Refer to mounting heights schedule for Barrier-Free rim heights.)

2.4 LAVATORIES

- A. LAV-1 Lavatories: 20" x 18" vitreous china lavatory, white in color, with backsplash, front overflow, and chrome plated grid strainer/tailpiece, fabricated for concealed arm or wall hanger supports. Drill lavatories for 4" faucets. American Standard "Lucerne" Model 0355.012 or equivalent. Provide concealed arm carriers, F-1 faucet, trap, and supplies and stops as specified in the Articles below. (Refer to mounting heights schedule for Barrier-Free requirements.)
- 1. Provide offset tailpiece on barrier-free units.
 - 2. Provide thermostatic mixing valve on hot water line to barrier-free lavatory faucet. Mount below lavatory within trap shield. Refer to Section 22 1119 for mixing valve.
 - 3. Provide custom stainless steel under lavatory shield on barrier-free units. Refer to articles below.

2.5 MOP BASINS

- A. MB-1 Mop Basin: One piece molded stone 10" high basin with 1" shoulders; overall basin size: 24" x 24". Furnish with factory installed stainless steel 3" drain body with removable stainless steel strainer. Furnish with two stainless steel wall shields, and hose and hose bracket accessories for field installation. Mustee Model 63M or equivalent. Provide F-2 faucet as specified in the Articles below.

2.6 ELECTRIC WATER COOLERS

- A. DF-1 Electric Water Coolers (Barrier-Free): Exterior Grade, Two-level wall mounted, self-contained barrier free access electric water coolers with fully sealed hermetic refrigeration system and bottle fill station. Capacity 8 GPH of 50°F drinking water, 80°F inlet and 90°F ambient. Include front and side push-bar hand operators, flex-guard bubbler, and flow regulator from 20 to 100 psi, mounting hangers, stainless steel basins, and 14 gauge stainless steel construction. Bottle filler shall provide 1.1 gpm flow rate with laminar flow to minimize splashing and include the minimum 3000-gallon capacity filter with visual monitor to indicate when replacement is necessary. Unit shall include integrated silver ion anti-microbial protection in key areas. Refrigeration system is located below basin, 115/1/60 compressor. Provide P-trap and supply with stop. Elkay Model LZSTL8WSSK or equivalent.

2.7 FAUCETS

- A. F-1 Lavatory Faucet: Polished chrome plated all metal deck mounted metering faucet, 4" center set, 0.5 gpm spout with chrome plated constant flow aerator, less pop up drain and hole, push down handles, 1/2" coupling nuts, chrome plated fixed drain strainer and 1-1/4" tailpiece (provide offset tailpiece for barrier free installations). Chicago Faucet Model 802-VE2805-665ABCP.
- B. F-2 Service Faucet: Rough chrome plated cast brass, combination service sink fitting with vacuum breaker, 3/4" threaded hose spout, metal lever handles indexed "HOT" and "COLD" plus red and blue index tabs, wall brace, pail hook, adjustable flanged female supply arms and having integral stops. Chicago Faucet Model 897.

2.8 FLUSH VALVES

- A. FV-1 Flush Valve: Dual-flush quiet, exposed, chrome plated, diaphragm operated flush valve for 1.28 gallon water closets, with non-hold-open low force/ADA compliant handle; chloramine resistant, dual seal diaphragm with a clog resistant, minimum dual filtered by-pass; 1" I.P.S. screw driver operated combination angle check and stop valve with protective vandal resistant cap; sweat solder kit; adjustable tailpiece; cast wall flange with set screw; vacuum breaker; spud coupling and flange for 1-1/2" top spud connection, and graphical wall plate with instructions. Zurn Model Z6000AV-HET or equivalent.
- B. FV-2 Flush Valve: Quiet, exposed, chrome plated, diaphragm operated 0.5 gallon urinal flush valve, with non-hold open low force/ADA compliant handle; chloramine resistant, dual seal diaphragm with a clog resistant, minimum dual filtered by-pass; 3/4" I.P.S. screw driver angle stop with protective vandal resistant cap; sweat solder kit; adjustable tailpiece, cast wall flange, vacuum breaker; and spud coupling and flange for 3/4" top spud connection. Zurn Model Z6003AV-EWS or equivalent.

2.9 TOILET SEATS

- A. TS-1 Elongated, heavy duty, solid white plastic toilet seats with molded-in bumpers, closed back/open front, less cover, and having stainless steel check hinge and stainless steel nuts. Centoco Model 500STSCC or equivalent.

2.10 FIXTURE SUPPORTS

- A. General: All Fixture support carriers to conform to ANSI A112.6.1M (American National Standards Institute).
- B. Urinal and Water Cooler Support Carriers: Wade W-400-AM11-M36 or equivalent foot supported carrier with rectangular structural steel uprights, top support plate, and lower bearing plate with studs.
- C. Lavatory Support Carriers: "Wade" Model W-520-M36 Series or equivalent concealed arm, foot supported carrier with rectangular structural steel uprights.

2.11 FITTINGS, TRIM AND ACCESSORIES

- A. Fittings for Plumbing Fixtures: Fittings include the following:
 - 1. Supply Inlets: Copper tube, size required for final connection.
 - 2. Supply Stops: Chrome-plated brass body, angle or straight configuration with compression fittings, loose-key type; size to match inlet pipe and supply riser.
 - 3. Supply Risers: 3/8-inch OD flexible chrome-plated brass tube with 1/2-inch IPS straight or offset, knob-end tailpiece.
 - 4. Traps: Chrome-plated, 17 gauge tubular brass P-trap and wall bend, with slip-joint inlet, wall flange, and escutcheon; same size as fixture outlet connection.
 - a. For concealed applications within water coolers or casework, ASTM F 409 PVC one or two-piece trap and waste to wall maybe used.
- B. Refer to Section 05 5000 "Metal Fabrications" for stainless steel shields below wall mounted lavatories.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before plumbing fixture installation.
- B. Examine cabinets, counters, floors, and walls for suitable conditions where fixtures will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.
- B. Install off-floor supports, affixed to building substrate, for wall-mounting fixtures.
 - 1. Use carrier supports with waste fitting and seal for back-outlet fixtures.
 - 2. Use carrier supports without waste fitting for fixtures with tubular waste piping.
 - 3. Use chair-type carrier supports with rectangular steel uprights for accessible fixtures.
- C. Install back-outlet, wall-mounting fixtures onto waste fitting seals and attach to supports.
- D. Install floor-mounting fixtures on closet flanges or other attachments to piping or building substrate.
- E. Install wall-mounting fixtures with tubular waste piping attached to supports.
- F. Install fixtures level and plumb according to roughing-in drawings.
- G. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
 - 1. Exception: Use ball valves if supply stops are not specified with fixture. Valves are specified in Division 22 Section "General-Duty Valves for Plumbing Piping."
- H. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
- I. Install tubular waste piping on drain outlet of each fixture to be indirectly connected to drainage system.
- J. Install toilet seats on water closets.
- K. Install traps on fixture outlets.
 - 1. Exception: Omit trap on fixtures with integral traps.
 - 2. Exception: Omit trap on indirect wastes, unless otherwise indicated.
- L. Install escutcheons at piping wall and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding fittings. Escutcheons are specified in Division 22 Section "Common Work Results for Plumbing."
- M. Set mop basins in leveling bed of cement grout. Grout is specified in Division 22 Section "Common Work Results for Plumbing."
- N. Seal joints between fixtures and walls, floors, and countertops using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 07 Section "Joint Sealants."
- O. Install flush valves in accordance with manufacturer's instructions. Adjust settings and verify proper operation.

1. Install flush valves in Barrier-Free stalls with handles on wide side of stall.

3.3 CONNECTIONS

- A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

3.4 FIELD QUALITY CONTROL

- A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
- B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.
- C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.
- D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.

3.5 ADJUSTING

- A. Operate and adjust faucets and controls. Replace damaged and malfunctioning fixtures, fittings, and controls.
- B. Adjust mixing valve maximum temperature limit stop in accordance with manufacturers' recommendations and in compliance with the plumbing code and authority having jurisdiction.
- C. Replace washers and seals of leaking and dripping faucets and stops.

3.6 CLEANING

- A. Clean fixtures, faucets, and other fittings with manufacturers' recommended cleaning methods and materials. Do the following:
 1. Remove faucet spouts and strainers, remove sediment and debris, and reinstall strainers and spouts.
 2. Remove sediment and debris from drains.
- B. After completing installation of exposed, factory-finished fixtures, faucets, and fittings, inspect exposed finishes and repair damaged finishes.

3.7 PROTECTION

- A. Provide protective covering for installed fixtures and fittings.

- B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

3.8 FIXTURE HEIGHT SCHEDULE

- A. Install fixtures to heights above finished floor as indicated.

1. Water Closet:
 - a. Standard: 15 inches to top of bowl rim.
 - b. Barrier Free: 18 inches, top of seat.
2. Water Closet Flush Valves:
 - a. Standard: 11 inches min. above bowl rim.
3. Urinal:
 - a. Standard: 22 inches to top of bowl rim.
 - b. Barrier Free: 17 inches maximum to top of bowl rim.
4. Urinal Flush Valves:
 - a. Standard: 11 inches min. above top.
 - b. Barrier Free: 46 inches maximum to flush valve handle.
5. Lavatory:
 - a. Standard: 31 inches to top of basin rim.
 - b. Barrier Free: 34 inches to top of basin rim.
6. Water Cooler:
 - a. Standard Adult: Minimum 36 inches and maximum 43 inches to spout outlet.
 - b. Barrier Free: Maximum 36 inches to spout outlet.

3.9 FIXTURE ROUGH-IN SCHEDULE

- A. Line sizes indicated below are run-out sizes, reduce size as required at connection to fixture. Main lines and drops shall be installed in sizes as indicated on drawings.

1. Water Closet (Flush Valve Type):
 - a. Cold Water: 1 Inch.
 - b. Waste: 4 Inch.
 - c. Vent: 2 Inch.
2. Urinal (Flush Valve Type):
 - a. Cold Water: 1 Inch.
 - b. Waste: 2 Inch.
 - c. Vent: 1-1/2 Inch.
3. Lavatory:

- a. Hot Water: 1/2 Inch.
 - b. Cold Water: 1/2 Inch.
 - c. Waste: 1-1/2 Inch.
 - d. Vent: 1-1/4 Inch.
4. Water Cooler:
- a. Cold Water: 1/2 Inch.
 - b. Waste: 1-1/4 Inch.
 - c. Vent: 1-1/4 Inch.
5. Mop Basin:
- a. Hot Water: 3/4 inch.
 - b. Cold Water: 3/4 inch.
 - c. Waste: 3 inch.
 - d. Vent: 1-1/2 inch.

END OF SECTION 22 4000