NRHS FIELDS PHASE 2 & HVAC UPGRADES

NORTH ROCKLAND HIGH SCHOOL
SED NO. 50-02-01-06-0-016-036

PRESS BOX - SOFTBALL
SED NO. 50-02-01-06-7-090-001

PRESS BOX - BASEBALL
SED NO. 50-02-01-06-7-091-001

106 Hammond Rd
Thiells, NY 10984

OWNER:
North Rockland Central School District
65 Chapel St
Garnerville, NY 10923

ARCHITECT:
MICHAEL SHILALE ARCHITECTS, LLP
140 Park Avenue
New City, NY 10956

STRUCTURAL & PME ENGINEER:
GREENMAN-PEDERSEN, INC.
400 Rella Boulevard
Montebello, NY 10901

LANDSCAPE ARCHITECT & CIVIL ENGINEER:
THE LA GROUP
40 Long Alley
SARATOGA SPRINGS, NY 12866

LIST OF DRAWINGS

DRAWING No.	DRAWING TITLE	DATE
A-000	COVER SHEET	10/03/24
A-001	LEGENDS, NOTES, UNIT PRICES, ALTERNATES & ALLOWANCES	10/03/24
B-100	CODE ANALYSIS - RTU REPLACEMENT	10/03/24
B-110	CODE ANALYSIS - BLEACHERS	10/03/24
B-130	CODE ANALYSIS - PRESS BOXES	10/03/24
B-190	EGRESS PLAN BASEBALL BLEACHER	10/03/24
B-191	EGRESS PLAN SOFTBALL BLEACHER	10/03/24
	BOUNDARY LINE AND TOPOGRAPHIC SURVEY (SHEET 1 OF 4)	06/01/22
	BOUNDARY LINE AND TOPOGRAPHIC SURVEY (SHEET 2 OF 4)	06/01/22
	BOUNDARY LINE AND TOPOGRAPHIC SURVEY (SHEET 3 OF 4)	06/01/22
	BOUNDARY LINE AND TOPOGRAPHIC SURVEY (SHEET 4 OF 4)	06/01/22
AA-100	ASBESTOS ABATEMENT PLAN	10/03/24
C-100	SITE KEY PLAN	10/03/24
C-101	SITE CODE COMPLIANCE PLAN	10/03/24
C-200	DEMO PLAN - SOFTBALL FIELD	10/03/24
C-201	DEMO PLAN - BASEBALL FIELD	10/03/24
C-202	DEMO PLAN - FIELD HOCKEY	10/03/24
C-300	LAYOUT PLAN - SOFTBALL	10/03/24
C-301	LAYOUT PLAN - BASEBALL	10/03/24
C-302	LAYOUT PLAN - FIELD HOCKEY	10/03/24
C-400	GRADING & DRAINAGE PLAN - SOFTBALL	10/03/24
C-401	GRADING & DRAINAGE PLAN - BASEBALL	10/03/24
C-402	GRADING & DRAINAGE PLAN - FIELD HOCKEY	10/03/24
C-410	GRADING & UTILITY - SOFTBALL	10/03/24
C-420	GRADING & UTILITY - BASEBALL	10/03/24
C-430	GRADING & UTILITY - FIELD HOCKEY	10/03/24
C-500	PLANTING PLAN - SOFTBALL	10/03/24
C-501	PLANTING PLAN - BASEBALL	10/03/24
C-502	PLANTING PLAN - FIELD HOCKEY	10/03/24
C-600	LINESTRIPPING PLANS	10/03/24
C-601	LINESTRIPPING PLANS	10/03/24
C-710	SITE DETAILS	10/03/24
C-711	SITE DETAILS	10/03/24
C-712	SITE DETAILS	10/03/24
C-713	SITE SECTIONS	10/03/24
C-714	RAMP, WALL AND STAIR DETAILS	10/03/24
C-715	SITE DETAILS	10/03/24
C-716	SITE DETAILS	10/03/24
C-717	ATHLETIC DETAILS	10/03/24
C-718	ATHLETIC DETAILS	10/03/24
C-720	UTILITY DETAILS	10/03/24
C-721	UTILITY DETAILS	10/03/24
C-722	UTILITY DETAILS	10/03/24
C-723	UTILITY DETAILS	10/03/24
CE-001	ELECTRICAL SYMBOLS, GENERAL NOTES, SCHEDULES AND ABBREVIATIONS	10/03/24
CE-002	ELECTRICAL SITE AND SERVICES REMOVAL PLAN	10/03/24
CE-003	ELECTRICAL SITE AND SERVICES PLAN FROM ANNEX BUILDING	10/03/24
CE-004	ELECTRICAL SITE AND SERVICES PLAN FROM MAIN BUILDING	10/03/24
CE-101	ELECTRICAL SOFTBALL FIELD INSTALLATION PLAN	10/03/24
CE-102	ELECTRICAL BASEBALL FIELD INSTALLATION PLAN	10/03/24
CE-103	ELECTRICAL HOCKEY FIELD INSTALLATION PLAN	10/03/24
CE-104	ELECTRICAL DUGOUT AND PRESSBOX PLANS	10/03/24
CE-105	ELECTRICAL SOFTBALL BLEACHER CANOPY LIGHTING PLAN	10/03/24
CE-401	ELECTRICAL MAIN & ANNEX BUILDING INSTALLATION PART PLANS	10/03/24
CE-402	ELECTRICAL PARTIAL ONE LINE DIAGRAMS	10/03/24
CE-403	ELECTRICAL LIGHTING FIXTURE AND PARTIAL SCHEDULES	10/03/24
CE-404	ELECTRICAL PANEL SCHEDULES SHEET #2	10/03/24
CE-501	ELECTRICAL DETAILS SHEET #1	10/03/24
CE-502	ELECTRICAL DETAILS SHEET #2	10/03/24
CE-503	ELECTRICAL DETAILS SHEET #3	10/03/24
CE-504	ELECTRICAL DETAILS SHEET #4	10/03/24
CE-505	ELECTRICAL DETAILS SHEET #5	10/03/24
S-001	STRUCTURAL GENERAL NOTES	10/03/24
S-100	BASE PLAN	10/03/24
S-101	BASEBALL BLEACHER FOUNDATION PLAN	10/03/24
S-102	SOFTBALL BLEACHER FOUNDATION PLAN	10/03/24
S-103	DUGOUTS STRUCTURAL PLAN	10/03/24
S-104	HOCKEY PRESSBOX FOUNDATION PLAN	10/03/24
S-110	PARTIAL ROOF PLANS	10/03/24
S-200	FOUNDATION DETAILS AND SECTIONS	10/03/24
S-300	BLEACHER FRAMING SECTIONS	10/03/24
S-301	SECTIONS & DETAILS	10/03/24
A-100	ROOF PLAN	10/03/24
A-110	SOFTBALL BLEACHER LAYOUT PLAN	10/03/24
A-111	SOFTBALL BLEACHER CANOPY PLAN	10/03/24
A-120	BASEBALL BLEACHER LAYOUT PLAN	10/03/24
A-121	BASEBALL BLEACHER CANOPY PLAN	10/03/24
A-130	PRESS BOX PLANS & ELEVATIONS	10/03/24
A-131	FIELD HOCKEY PRESS BOX PLANS & ELEVATIONS	10/03/24
A-140	DUGOUT PLANS	10/03/24
A-150	FIELD ENTRY SIGNAGE PLANS & ELEVATIONS	10/03/24
A-210	SOFTBALL BLEACHER SECTIONS	10/03/24
A-211	SOFTBALL BLEACHER SECTIONS	10/03/24
A-220	BASEBALL BLEACHER SECTIONS	10/03/24
A-221	BASEBALL BLEACHER SECTIONS	10/03/24
A-240	DUGOUT ELEVATIONS	10/03/24
A-241	DUGOUT SECTIONS	10/03/24
A-242	DUGOUT SECTIONS	10/03/24
A-400	CEILING REMOVAL & INSTALLATION PLAN	10/03/24
A-440	DUGOUT REFLECTED CLG PLANS	10/03/24
A-500	ROOF DETAILS	10/03/24
A-501	ROOF DETAILS	10/03/24
A-502	ROOF DETAILS	10/03/24
A-515	DUGOUT DETAILS	10/03/24

DRAWING No.	DRAWING TITLE	DATE
M-001	MECHANICAL GENERAL NOTES	10/03/24
M-002	MECHANICAL SCHEDULES	10/03/24
M-101	MECHANICAL SITE PLAN	10/03/24
M-102	MECHANICAL PRESS BOX INSTALL-1	10/03/24
M-103	MECHANICAL PRESS BOX INSTALL-2	10/03/24
M-104	MECHANICAL ROOF REMOVAL	10/03/24
M-105	MECHANICAL ROOF INSTALLATION	10/03/24
M-401	CONTROL DIAGRAMS-1	10/03/24
M-501	MECHANICAL DETAILS - 1	10/03/24
M-502	MECHANICAL DETAILS - 2	10/03/24
ED-101	NRHS ELECTRICAL ROOF REMOVAL PLAN	10/03/24
E-101	NRHS ELECTRICAL ROOF INSTALLATION PLAN	10/03/24

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE:12-03-25

Drawn by JR/MAL
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
400 RELLA BOULEVARD,
SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL SED# 50-02-01-06-7-090-001
PRESS BOX - BASEBALL SED# 50-02-01-06-7-091-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS LLP, ALL RIGHTS RESERVED.

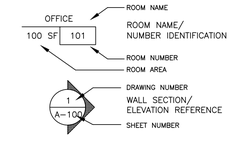
Drawing Title
COVER SHEET

Drawing No.
A-000

CONCRETE MASONRY UNIT
BRICK
RIGID INSULATION
CONCRETE
GRAVEL OR STONE
EARTH
EIFS
ASPHALT PAVING
SAND/MORTAR/GYPSUM BOARD
STEEL
ACT
ROUGH WOOD
BRONZE

MATERIALS LEGEND

DOOR NUMBER
KEY NOTE
PARTITION TYPE
REVISION NUMBER
WINDOW TYPE
MECHANICAL EQUIPMENT
EXISTING PARTITION
EXISTING PARTITION TO BE REMOVED
NEW PARTITION (SEE PARTITION LEGEND)
NEW DOOR
EXISTING DOOR
EXISTING DOOR TO BE REMOVED
EXISTING WINDOW
NEW WINDOW



SYMBOLS LEGEND

ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
ASPH	ASPHALT
BLK	BLOCK
BLK'G	BLOCKING
BUR	BUILT UP ROOFING
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONT	CONTINUOUS
C.J.	CONTROL JOINT
DN	DOWN
DIA	DIAMETER
DWG	DRAWING
E.F.	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
E.W.	EACH WAY
E.W.C.	ELECTRICAL WATER COOLER
EL	ELEVATION
ELC	ELECTRICAL CONTRACTOR
EXIST	EXISTING
EXP	EXPANSION
EXT'G	EXISTING
EXTR	EXTERIOR
FP	FIREPROOF
FIN.	FINISH(ED)
GA	GAUGE
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GL	GLASS
GWB	GYPSUM WALL BOARD
HDPE	HIGH DENSITY POLYETHYLENE
HM	HOLLOW METAL
H.P.	HIGH POINT
HAC	HEATING & A/C CONTRACTOR
ITR	INDIVIDUAL TREATMENT ROOM
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LP	LOW POINT
MAX	MAXIMUM
MFR	MANUFACTURER
MTL	METAL
MIN	MINIMUM
MO	MASONRY OPENING
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
OC	ON CENTER
OPN'G	OPENING
PBC	PLUMBING CONTRACTOR
PLAS.LAM.	PLASTIC LAMINATE
PL	PLATE
PLY'D	PLYWOOD
RAD	RADIUS
REF.CLG.	REFLECTED CEILING
REQ'D	REQUIRED
RO	ROUGH OPENING
SIM	SIMILAR
S.P.	STARTING POINT
STL	STEEL
SUSP.CLG.	SUSPENDED CEILING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITE TILE
w/	WITH
WD	WOOD

ABBREVIATIONS

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N. DIMENSIONS TO THE FINISHED FACE OF AN ELEMENT OR WALL WILL BE DESIGNATED WITH AN "F" AS SHOWN.

2. C.C. TO VERIFY ALL DIMENSIONS IN THE FIELD AND IS TO NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES.

GENERAL NOTES

- UNIT PRICE NO. 1: PROVIDE UNIT PRICE TO INCREASE OR REDUCE CLEANING EXISTING MAIN DUCTWORK FOR EACH UNIT. PRICE IS PER LINEAR FOOT.
- UNIT PRICE NO. 2: PROVIDE UNIT PRICE TO INCREASE OR REDUCE REPLACING EXISTING SUPPLY AND RETURN PIPING AND INSULATION FOR EACH UNIT. PRICE IS PER LINEAR FOOT.
- UNIT PRICE NO. 3: PROVIDE UNIT PRICE TO INCREASE OR REDUCE REMOVAL OF ROCK PER CY.

UNIT PRICES

- ALT. NO. 1: EXISTING RTU F2 TO BE REMOVED AND REPLACED WITH NEW.
- ALT. NO. 2: PROVIDE DOUBLE BATTING TUNNEL AT SOFTBALL FIELD AND BASEBALL FIELD IN LIEU OF BASE BID SINGLE BATTING TUNNEL.
- ALT. NO. 3: PROVIDE FOUR PORTABLE BLEACHERS AT BASEBALL FIELD.
- ALT. NO. 4: ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL CONNECTIONS FOR FIELD HOCKEY PRESS BOX.

ALTERNATES

- ALLOWANCE NO. 1: CONTRACTOR SHALL PROVIDE ALLOWANCE TO CLEAN 20LF OF EXISTING DUCT–WORK PER UNIT. CONTRACTOR SHALL PROVIDE AS–BUILT TO SPECIFY AREAS OF CLEANING WITH DIMENSIONS INDICATED IN LINEAR FEET.
- ALLOWANCE NO. 2: REPLACE EXISTING SUPPLY AND RETURN PIPING AND INSULATION FOR 20 LINEAR FEET PER UNIT.
- ALLOWANCE NO. 3: PROVIDE PROPOSAL FROM THIRD PARTY HVAC COMMISSIONING AGENT FOR OWNER TO CONTRACT WITH (DEDUCT ALLOWANCE)
- ALLOWANCE NO. 4: REMOVAL OF EXISTING DRAINAGE PIPES FOUND IN EXISTING FIELDS AND CAP DISCOVERED WATER PIPES.
- ALLOWANCE NO. 5: SITE CONTRACTOR TESTING
- ALLOWANCE NO. 6: MECHANICAL CONTRACTOR TESTING
- ALLOWANCE NO. 7: ELECTRICAL CONTRACTOR TESTING
- ALLOWANCE NO. 8: SITE CONTRACTOR ALLOWANCE FOR SWPPP INSPECTIONS.
- ALLOWANCE NO. 9: ROCK ALLOWANCE. INCLUDE 100 CY.
- ALLOWANCE NO. 10: SCOPE AND CLEAN EXISTING DRAINPIPES.

ALLOWANCES

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by JR/MAL
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
49 GLEN AVENUE,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-016-036
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-001-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

106 Hammond Rd.
Pomona, NY 10970

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, LLP.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS LLP, ALL RIGHTS RESERVED.

Drawing Title
LEGENDS, NOTES, UNIT PRICES, ALTS. & ALLOWANCES

Drawing No.
A-001

2020 EXISTING BUILDING CODE OF NEW YORK STATE

BUILDING CODE SUMMARY			
Site	North Rockland High School	Date:	04.16.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - RTU REPLACEMENT	Location	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Rd, Thiells, NY 10984		

APPLICABLE ORDINANCES, CODES & STANDARD	
2020	Existing Building Code of New York State
2020	Building Code of New York State

EXISTING BUILDING CODE: CHAPTER 1 SCOPE AND ADMINISTRATION	
SECTION 101	GENERAL
101.2 Scope	The provisions of this code shall apply to the repair, alteration, change of occupancy, addition to and relocation of existing buildings.
101.4 Applicability	This code shall apply to the repair, alteration, change of occupancy, addition and relocation of existing buildings, regardless of occupancy, subject to the criteria of Sections 101.4.1 and 101.4.2.
101..4.2 Buildings Previously Occupied	The legal occupancy of any building existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the Fire Code of New York State, or the Property Maintenance Code of New York State, or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

EXISTING BUILDING CODE: CHAPTER 2 DEFINITIONS	
SECTION 202	GENERAL DEFINITIONS
Equipment or Fixture	Any plumbing, heating, electrical, ventilating, air conditioning, refrigerating, and fire protection equipment, and elevators, dumbwaiters, escalators, boilers, pressure vessels and other mechanical facilities or installations that are related to building services. Equipment or fixture shall not include manufacturing, production, or process equipment, but shall include connections from building service to process equipment.

EXISTING BUILDING CODE: CHAPTER 3 PROVISIONS FOR ALL COMPLIANCE METHODS	
SECTION 301	ADMINISTRATION
301.3.2 Work Area Compliance Method	Alterations, additions and changes of occupancy complying with the applicable requirements of Chapters 6 through 12 of this code shall be considered in compliance with the provisions of this code.

EXISTING BUILDING CODE: CHAPTER 6 CLASSIFICATION OF WORK	
SECTION 601	GENERAL
601.2 Work Area	The work area, as defined in Chapter 2, shall be identified on the construction documents.
SECTION 602	ALTERATION - LEVEL 1
602.1 Scope	Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.
602.2 Application	Level 1 alterations shall comply with the provisions of Chapter 7.

EXISTING BUILDING CODE: CHAPTER 7 ALTERATIONS - LEVEL 1	
SECTION 702	BUILDING ELEMENTS AND MATERIALS
702.6 Methods and Materials	New work shall comply with the materials and methods requirements in the Building Code of New York State, Energy Conservation Construction Code of New York State, Mechanical Code of New York State, and Plumbing Code of New York State, as applicable, that specify material standards, detail of installation and connection, joints, penetrations, and continuity of any element, component, or system in the building.
SECTION 703	FIRE PROTECTION
703.1 General	Alterations shall be done in a manner that maintains the level of fire protection provided

EXISTING BUILDING CODE - RTU

2020 ENERGY CONSERVATION CODE OF NEW YORK STATE

BUILDING CODE SUMMARY			
Site	North Rockland High School	Date:	04.16.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - RTU REPLACEMENT	Location	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Rd, Thiells, NY 10984		

APPLICABLE ORDINANCES, CODES & STANDARD	
2020	Existing Building Code of New York State
2020	Building Code of New York State
2020	Energy Conservation Code of New York State

ENERGY CONSERVATION CODE: CHAPTER 4 COMMERCIAL ENERGY EFFICIENCY			
SECTION C402	Building Envelope Requirements		
Table C402.1.3	Building Envelope Requirements - Opaque Assemblies		
	Climate Zone 5A	Walls	Average R-Value
	Mass	Above Grade	R-11.4ci
	Climate Zone 5A	Roofs	Average R-Value
	Wood Framed or Other	Insul entirely above roof deck	R-30ci
SECTION C403	Building Mechanical Systems		
C403.1 General	Mechanical systems and equipment serving the building heating, cooling, ventilating or refrigerating needs shall comply with this section.		
C403.1.1 Calculation of Heating and Cooling Loads (Mandatory)	Design loads associated with heating, ventilating and air conditioning of the building shall be determined in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure using the design parameters specified in Chapter 3. Heating and cooling loads shall be adjusted to account for load reductions that are achieved where energy recovery systems are utilized in the HVAC system in accordance with the ASHRAE HVAC Systems and Equipment Handbook by an approved equivalent computational procedure.		

ENERGY CONSERVATION CODE: CHAPTER 5 EXISTING BUILDING	
SECTION C503	ALTERATIONS
C503.1 General	Alterations to any building or structure shall comply with the requirements of the code for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration. Alterations to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall not create an unsafe or hazardous condition or overload existing building systems.
C503.4 Heating and cooling Systems	New heating, cooling and duct systems that are part of the alteration shall comply with Sections C403.

ENERGY CODE - RTU

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

Drawn by MAL/JC
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

REG. EXP DATE: 06-30-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 302, SUFFERN, NY 10901

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-4-016-000
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-009-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-091-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
CODE ANALYSIS - RTU REPLACEMENT

Drawing No.
B-100

2020 NEW YORK STATE BUILDING CODE

BUILDING CODE SUMMARY

Owner:	North Rockland High School	Date:	04.17.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - BLEACHERS	Location:	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Road, Thiells NY 10984		

APPLICABLE ORDINANCES, CODES & STANDARD

Building Code	2020 Building Code of New York State
Fire/ Life Safety Code	2020 Fire Code of New York State
Accessible Code	ICC/ANSI A117.1 -2009
Energy Code	2020 Energy Conservation Construction Code of New York State
Plumbing Code	2020 Plumbing Code of New York State
Electric Code	National Electrical Code (NFPA 70) 2017
Mechanical Code	2020 Mechanical Code of New York State

CHAPTER 3: OCCUPANCY CLASSIFICATION AND USE

Section 303	ASSEMBLY GROUP A-5 (BLEACHERS)
Section 303.6	Group A-5 occupancy includes assembly uses intended for participation in or viewing outdoor activities including, but not limited to: Amusement park structures, Bleachers, Grandstands, Stadiums *See Manual of Planning Standards Analysis section C003 for Bleacher Occupancy

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

CHAPTER 11: ACCESSIBILITY

Section 1102	COMPLIANCE
1102.1 Design	Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1.
Section 1103	SCOPING REQUIREMENTS
1103.1 Where required.	Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities.
Section 1104	ACCESSIBLE ROUTE
1104.1 Site arrival points	At least one accessible route within the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance served.
1104.2 Within a site	At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements and accessible spaces that are on the same site.
Section 1108	Special Occupancies
1108.2.2.1	Accessible wheelchair spaces shall be provided in accordance with table 1108.2.2.1

Capacity of Seating in Assembly areas	Minimum Required Number of Wheelchair spaces
4 to 25	1
26 to 50	2
51 to 100	4
101 to 300	5
301 to 500	6
501 to 5000	6 plus 1 each for each 150

1108.2.7.1	The number and type of receivers shall be provided for assistive listening systems in accordance with Table 1108.2.7.1

Capacity of Seating in Assembly areas	Minimum required number of receivers	Minimum number of receivers to be hearing aid compatible
50 or less	2	2
51 to 200	2, Plus 1 per 25 seats over 50 Seats	2
201 to 500	2, Plus 1 per 25 seats over 50 Seats	1 per 4 receivers
501 to 1000	20, Plus 1 per 25 seats over 500 Seats	1 per 4 receivers
1001 to 2000	35, Plus 1 per 25 seats over 1000 Seats	1 per 4 receivers
Over 2,000	55, Plus 1 per 25 seats over 2000 Seats	1 per 4 receivers

CHAPTER 29: PLUMBING FACILITIES

SECTION 2902	MINIMUM PLUMBING FACILITIES
2902.3.3 Location of Toilet Facilities in Occupancies Other than Malls	In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

BUILDING CODE - BLEACHERS

2017 NYS STANDARD ON BLEACHERS, FOLDING TELESCOPIC SEATING, AND GRANDSTANDS

BUILDING CODE SUMMARY

Owner:	North Rockland High School	Date:	01.23.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - BLEACHERS	Location:	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Road, Thiells NY 10984		

APPLICABLE ORDINANCES, CODES & STANDARD

Building Code	2020 Building Code of New York State
Fire/ Life Safety Code	2020 Fire Code of New York State
Accessible Code	ICC/ANSI A117.1 -2009
Energy Code	2020 Energy Conservation Construction Code of New York State
Plumbing Code	2020 Plumbing Code of New York State
Electric Code	National Electrical Code (NFPA 70) 2017
Mechanical Code	2020 Mechanical Code of New York State

CHAPTER 3: CONSTRUCTION

Section 301	GENERAL
Section 301.1 General	The construction or installation of new bleachers, folding and telescopic seating, and grandstands and press boxes shall comply with the provisions of this chapter.
Section 302	PERMITTED MATERIALS
Section 302.2 Durability	Materials used in the construction of outdoor installations shall be weather resistant. Where wood is used, it shall be naturally durable or preservative-treated wood as defined in the building code or other approved material. Where ferrous metal is used, it shall be protected from corrosion. Fasteners shall consist of aluminum or other approved corrosion-resistant materials or shall be provided with approved corrosion-resistant coatings such as copper or zinc.
Section 305	SPACES BENEATH SEATS
Section 305.1 Space Beneath Seats	Spaces beneath or adjacent to seating structures shall comply with the building code and fire code.
Section 306	CLEAR HEIGHT
Section 306.1 Clear Height	The clear height of aisle accessways, aisles and portions of the means of egress system shall be a minimum of 80 inches (2032 mm).
Section 307	ROOF HEIGHT
Section 307.1 Roof Height	A smoke-protected assembly seating area with a roof shall have the lowest portion of the roof deck not less than 15 feet (4572 mm) above the highest aisle or aisle accessway. Exception: A roof canopy above an open-air assembly seating installation shall be permitted to be less than 15 feet (4572 mm) above the highest aisle or aisle accessway provided that there are no objects less than 80 inches (2032 mm) above the highest aisle or aisle accessway.
Section 309	FIRE PROTECTION
Section 309.1 Fire Protection	Fire protection systems shall be provided where required by the building code. Exceptions: 1. An emergency voice/alarm system is not required for outdoor bleacher-type seating provided all of the following are met: 1.1. The bleacher-type seating has an occupant load of less than 15,000; 1.2. A public address system with standby power is provided; 1.3. Enclosed spaces attached or immediately adjacent to the bleacher-type seating comprise, in the aggregate, 10 percent or less of the overall area of the bleacher-type seating or 1,000 square feet (92.9 m2), whichever is less. 1.4. Spaces under the bleacher-type seating shall be separated from the bleacher-type seating in accordance with Section 1029.1.1.1 of the International Building Code.1.5. All means of egress from the bleacher-type seating are open to the outside. 2. An emergency voice/alarm system is not required for outdoor bleacher-type seating with an occupant load of 300 or less. 3. An emergency voice/alarm system is not required for temporary outdoor bleacher-type seating providing all of the following are met: 3.1. There are no enclosed spaces under or attached to the bleacher-type seating; 3.2. The bleacher-type seating is erected for a period of less than 180 days; 3.2. Evacuation of the bleacher-type seating is included in an approved fire safety plan.
Section 310	ACCESSIBILITY
Section 310.1 Accessibility	Tiered seating shall be accessible as required by the building code.
Section 311	OPEN SPACES BENEATH FOOTBOARDS AND SEATBOARDS
Section 311.1 Open Spaces at Foorboards and Seathboards	Where an opening between the seatboard and footboard is located more than 30 inches (762 mm) above the floor or ground below, the opening shall be closed with construction such that a 4-inch-diameter (102 mm) sphere cannot pass through.

ICC 300 STANDARD ON BLEACHERS

CHAPTER 4: EGRESS

Section 402	TRAVEL
Section 402.1 Exit Access	Travel within tiered seating shall be considered exit access. Exit access includes aisles, cross-aisles, sloped or level walking surfaces, vomitories, tunnels, stairs and ramps connecting the tiered seating structure to other portions of a building, structure or grade.
Section 403	OCCUPANT LOAD
Section 403 Occupant Load	Where bench seating is used, the number of persons shall be based on one person for each 18 inches (457 mm) of length of the bench. Where individual seats are provided, the occupant load shall be based on one person per seat. The occupant load of reviewing stands and press boxes shall be based on 5 square feet (0.465 m2) per person for standing space and 7 square feet (0.65 m2) per person for movable chair seating space. The occupant load for security, audio and camera platforms shall be based on the actual number of occupants. *See Building Code Analysis for Occupancy Load
Section 404	GENERAL MEANS OF EGRESS

Table 404.1 Minimum Number of Exits	Function of Space	Occupant Load	Required Means of Egress	Means of Egress Provided
	Softball Bleachers	193	1	2
	Baseball Bleachers	274	2	2

Section 404.4 Travel Distance	For installations located inside a building, the travel distance from each seat to an exit shall comply with the building code. For exterior installations, the travel distance from each seat to the perimeter of the seating structure shall not exceed 400 feet (122 m). Where aisles are provided for seating, the distance shall be measured along the aisles and aisle accessway without travel over or on the seats.
Section 404.5 Required Width	The clear width of aisles and other means of egress for smoke-protected assembly seating shall not be less than the occupant load served by the egress elements multiplied by the appropriate factor in Table 404.5(1). The clear width of aisles and other means of egress for indoor assembly seating that is not smoke protected shall not be less than the occupant load served by the egress elements multiplied by the appropriate factor in Table 404.5(2). The clear width of aisles and other means of egress for open-air assembly seating shall not be less than the occupant load served by the egress elements multiplied by the appropriate factor in Table 404.5(3). The total number of seats specified shall be those within the space exposed to the same environment. Aisles shall also comply with Section 405. Where the width of the stair and stepped aisle exceeds 30 inches (762 mm) from a handrail, the capacity of the stair and stepped aisle shall be determined by adding the capacity of the aisle within 30 inches (762 mm) of the handrail and the capacity of the stair or stepped aisle beyond 30 inches (762 mm) of the handrail.

Table 404.5(2) Width of Aisles and Means of Egress for Assembly Seating without Smoke-Protection	Function of Space	Stairs and stepped aisles with handrails within 30 inches			Ramps not Steeper than 1:10 Slope		
		Inch/St	Req'd	Prov.	Inch/St	Req'd	Prov.
	Softball Bleachers	0.3	28.95	58	0.2	19.3	56
	Baseball Bleachers	0.3	41.1	58	0.2	27.4	56

Table 404.5(3) Width of Aisles and Means of Egress for Open-Air Assembly Seating without Smoke-Protection	Function of Space	Stairs and stepped aisles with handrails within 30 inches			Ramps not Steeper than 1:10 Slope		
		Inch/St	Req'd	Prov.	Inch/St	Req'd	Prov.
	Softball Bleachers	0.08	7.72	58	0.06	8.22	56
	Baseball Bleachers	0.08	10.96	58	0.06	8.22	56

Section 404.5.1 Measurement	The clear width of aisles and other means of egress shall be measured to walls, edges of seating and tread edges except for permitted projections. There shall be no obstructions in the required width of aisles except for handrails as provided in Section 409.7.
Section 405	AISLES
Section 405.2 Minimum Aisle Width	The minimum clear width of aisles shall be as follows. 1. Forty-eight inches (1219 mm) for stepped aisles having seating on each side. Exception: Thirty-six inches (914 mm) where the aisle serves less than 50 seats. 2. Thirty-six inches (914 mm) for stepped aisles having seating on only one side. Exception: Twenty-three inches (584 mm) between a stepped aisle handrail and seating where an aisle does not serve more than five rows on one side. 3. Twenty-three inches (584 mm) between a stepped aisle handrail or guard and seating where the aisle has a mid-aisle handrail. 4. Forty-two inches (1067 mm) for level or ramped aisles having seating on both sides. Exceptions: Thirty-six inches (914 mm) where the aisle serves less than 50 seats. Thirty inches (762 mm) where the aisle does not serve more than 14 seats. 5. Thirty-six inches (914 mm) for level or ramped aisles having seating on only one side. Exception: Thirty inches (762 mm) where the aisle does not serve more than 14 seats.
Section 406	STAIRS AND STEPPED AISLES
Section 406.3 Tread Depth	Tread depth shall be a minimum of 11 inches (279 mm). The tolerance between adjacent treads shall not exceed 0.188 inch (408 mm).
Section 406.4 Tread Construction	Treads constructed of more than two elements shall not have a gap of more than 0.50 inch (12.8 mm) between adjacent tread surfaces. Treads constructed of grating shall not permit a sphere of 0.50 inch (12.8 mm) in diameter to pass through.
Section 406.6 Riser Height	Riser height shall be not less than 4 inches (102 mm) nor more than 8 inches (203 mm). Exception: Riser height not exceeding 9 inches (229 mm) shall be permitted where necessitated by the slope of the adjacent seating areas to maintain sightlines.
Section 406.7 Riser Construction	Risers shall be of solid construction. Exceptions: 1. Openings in risers are permitted provided the opening does not exceed 0.5 inches (12.7 mm) in height and width. 2. Solid risers are not required in telescopic and folding seating where necessary to maintain opening and closing operational clearances.
Section 409	HANDRAILS
Section 409.1.1 Mid-Aisle Handrails	Where there is seating on both sides of the aisle, the mid-aisle handrails shall be discontinuous with gaps or breaks at intervals not exceeding five rows to facilitate access to seating and permit crossing from one side of the aisle to the other. These gaps or breaks shall have a clear width of not less than 22 inches (559 mm) and not greater than 36 inches (914 mm), measured horizontally, and the handrail shall have rounded terminations or bends. Such discontinuities shall also be permitted where there is seating on one or both sides of the aisle, and where there are guardrails complying with the graspability requirements for handrails. An additional rail shall be provided below the handrail, located parallel to, and approximately 12 inches (305 mm) below, the handrail. The additional rail need not comply with the graspability provisions of Section 409.3.
Section 409.2 Height	Handrail height, measured above stepped aisle tread nosings, shall be uniform, not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

ICC 300 STANDARD ON BLEACHERS

MANUAL OF PLANNING STANDARDS 2022

MANUAL OF PLANNING STANDARDS SUMMARY

Owner:	North Rockland Central School District	Date:	4/17/2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades	Location	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Rd, Thiells, NY 10984		

APPLICABLE ORDINANCES, CODES & STANDARD

2020	Existing Building Code of New York State
2020	Building Code of New York State
2020	Energy Conservation Code of New York State
2020	Fire Code of New York State

GENERAL PROVISIONS

S14	ACCESSIBLE FACILITIES AND PROGRAMS
S14-1 Section 504 of the Rehabilitation Act of 1974 (updated July 2003)	c. The requirement for accessible access to all primary functions extends to outdoor recreational facilities. All new athletic fields and recreational facilities shall include an accessible route from the building and/or the parking facilities. This applies to sports fields, track and field elements, playgrounds, tennis and basketball courts, bleachers, dugouts and related facilities.

APPENDIX C: ATHLETIC FACILITIES AND SITE STRUCTURES

C003 Grandstands/ Bleachers	a. The Occupancy Classification listed in the Uniform Fire Prevention and Building Code for Grandstands/Bleachers is A-5 (Assembly uses intended for participation in or viewing outdoor activities). b. The primary exit stair to grade from the grandstand/bleacher platform shall be a non-slip surface (not wood). c. New grandstands/bleachers, and replacement units that are substantially larger than the existing units, are required to have toilet facilities in compliance with the Plumbing Code of New York State.

MANUAL OF PLANNING STANDARDS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by: MAL/JC
Checked by: MS/JC
Project No.: 43045
Scale: AS NOTED
Date: 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 302, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL
FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
106 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: CODE ANALYSIS - BLEACHERS

Drawing No.: B-110

2020 NEW YORK STATE BUILDING CODE			
BUILDING CODE SUMMARY			
Owner:	North Rockland High School	Date:	01.23.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - PRESS BOXES	Location:	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Road, Thiells NY 10984		
APPLICABLE ORDINANCES, CODES & STANDARD			
Building Code	2020 Building Code of New York State		
Fire/ Life Safety Code	2020 Fire Code of New York State		
Accessible Code	ICC/ANSI A117.1 -2009		
Energy Code	2020 Energy Conservation Construction Code of New York State		
Plumbing Code	2020 Plumbing Code of New York State		
Electric Code	National Electrical Code (NFPA 70) 2017		
Mechanical Code	2020 Mechanical Code of New York State		
CHAPTER 3: OCCUPANCY CLASSIFICATION AND USE			
Section 304	BUISNESS GROUP B (PRESS BOXES)		
Section 304.1	Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts. *See section C004 of 2022 Manual of Planning Standards for further information		
CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS			
Section 504	BUILDING HEIGHT AND NUMBER OF STORIES		
Table 504.3	Allowable Building Height In Feet Above Grade Plane	Allowable:	Proposed:
	Use Group B, NS, Type IIB Construction	55 Feet	8 Feet
Table 504.4	Allowable Number of Stories Above Grade Plane	Allowable:	Proposed:
	Use Group B, NS, Type IIB Construction	3	1
Section 506	BUILDING AREA		
Table 506.2	Allowable Area Factor	Allowable:	Proposed:
	Use Group B, NS, Type IIB Construction	23,000sf	127sf
CHAPTER 6: TYPES OF CONSTRUCTION			
Section 601	**Construction Classification IIB**		
Table 601	Fire Resistance Rating Requirements for Building Elements		
	Building Element	Req'd Rating	Remarks
	Structural Frame	0	
	Bearing Walls Exterior	0	
	Bearing Walls Interior	0	
	Non Bearing Exterior Walls and Partitions	See Table 602	
	Non Bearing Interior Walls and Partitions	0	
	Floor Construction-incl beams and joists	0	
	Roof Construction-incl beams and joists	0	
CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS			
Section 906	PORTABLE FIRE EXTINGUISHERS		
906.1 Where required - Portable fire extinguishers shall be installed in all of the following locations: 1) In Group A, B, E, F, H, I, M, R-1, R-2, R-4, and S occupancies			
906.2 General requirements - Portable fire extinguishers shall be installed in accordance with this section and NFPA 10.			
906.5 Conspicuous location. - Portable fire extinguishers shall be located in conspicuous locations where they will have ready access and be immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel.			
Section 907	FIRE ALARM & DETECTION SYSTEM		
907.2.2 Group B	A manual fire alarm system shall be installed in Group B occupancies where one of the following conditions exists: The combined Group B occupant load of all floors is 500 or more. The Group B occupant load is more than 100 persons above or below the lowest level of exit discharge. The fire area contains an ambulatory care facility.		
CHAPTER 10: MEANS OF EGRESS			
Section 1004	OCCUPANT LOAD		
Table 1004.5	Max Floor Area Allowances per Occupant		
	Function of Space	Area in SF	Occupant Load Factor / Occupant Load
Softball Press Box*	Concentrated Business Use	96	15 / 7
Baseball Press Box*	Concentrated Business Use	96	15 / 7
			Total Occupant Load: 14
Note *: See Manual of Planning Standards section C004.c.1 for Occupant Load			
Section 1006	NUMBER OF EXITS AND EXIT ACCESS DOORWAYS		
1006.2.1 Egress based on occupant load and common path of egress travel distance.	Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the values listed in Table 1006.2.1.		
Section 1006	NUMBER OF EXITS AND EXIT ACCESS DOORWAYS		
1006.3.3(2) Stories with One Exit or Access to One Exit for Other Occupancies	Occupancy / Max Occ Load / Max Common Path of Egress Travel Distance (ft): W/O Sprinkler System - Occ Load (OL): OL<=30 / OL>30 / With Sprinkler Sys		
	B / 49 / 100ft / 75ft / 75ft		
Section 1009	ACCESSIBLE MEANS OF EGRESS		
1009.1 Accessible means of egress required. (See Manual of Planning Standards C004.c.6 for Accessibility Requirements)			
1009.3.3 Area of refuge.	Stairways shall either incorporate an area of refuge within an enlarge floor-level landing or shall be accessed from an area of refuge complying with section 1009.6		
Section 1010	DOORS, GATES AND TURNSTILES		
1010.1.1	Size of Doors	Clear width minimum 32 inches	
1010.1.10	Panic and Fire Exit Hardware	Not Required	
Section 1017	EXIT ACCESS TRAVEL DISTANCE		
Table 1017.2 Exit Access Travel Distance	Occupancy / without sprinkler (ft) / with sprinkler (ft)		
	B / 200 / 250		

BUILDING CODE - PRESS BOXES

CHAPTER 11: ACCESSIBLITY	
Section 1102	COMPLIANCE
1102.1 Design	Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1.
Section 1103	SCOPING REQUIREMENTS
1103.1 Where required.	Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities.
Section 1104	ACCESSIBLE ROUTE
1104.1 Site arrival points	At least one accessible route within the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible build-ing entrance served.
1104.2 Within a site	At least one accessible route shall connect accessible buildings, accessible facilities, accessible ele-ments and accessible spaces that are on the same site.
CHAPTER 29: PLUMBING FACILITIES	
SECTION 2902	MINIMUM PLUMBING FACILITIES
2902.3.3 Location of Toilet Facilities in Occupancies Other than Malls	In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

2020 ENERGY CONSERVATION CODE OF NEW YORK STATE			
BUILDING CODE SUMMARY			
Site	North Rockland High School	Date:	01.24.2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades - PRESS BOXES	Location	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Rd, Thiells, Ny 10984		
APPLICABLE ORDINANCES, CODES & STANDARD			
2020	Existing Building Code of New York State		
2020	Building Code of New York State		
2020	Energy Conservation Code of New York State		
ENERGY CONSERVATION CODE: CHAPTER 4 COMMERCIAL ENERGY EFFICIENCY			
SECTION C402	Building Envelope Requirements		
Table C402.1.3	Opaque Thermal Envelope Insulation Component Minimum Requirements		
	Climate Zone 5A	Roofs	Average R-Value
	Wood Framed or Other	Insulation entirely above roof deck	R-30ci
	Climate Zone 5A	Walls	Average R-Value
	Metal Framed	Above Grade	R-13 + R-7ci
	Climate Zone 5A	Floors	Average R-Value
	Joist/Framing	Above Grade	R-30
Table C402.4	Building Envelope Fenestration Maximum U-Factor and SHGC Requirements		
	Climate Zone 5A	U-Factor	SHGC
	Fixed Fenestration	0.38	PF<0.2: 0.40
	Operable Fenestration	0.45	0.2<PF<0.5: 0.48
	Entrance Doors	0.77	PF>0.5: 0.64
SECTION C403	Building Mechanical Systems		
C403.1 General	Mechanical systems and equipment serving the building heating, cooling, ventilating or refrigerating needs shall comply with this section.		
C403.1.1 Calculation of Heating and Cooling Loads (Mandatory)	Design loads associated with heating, ventilating and air conditioning of the building shall be determined in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure using the design parameters specified in Chapter 3. Heating and cooling loads shall be adjusted to account for load reductions that are achieved where energy recovery systems are utilized in the HVAC system in accordance with the ASHRAE HVAC Systems and Equipment Handbook by an approved equivalent computational procedure.		
ENERGY CONSERVATION CODE: CHAPTER 5 EXISTING BUILDING			
SECTION C503	ALTERATIONS		
C503.1 General	Alterations to any building or structure shall comply with the requirements of the code for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration. Alterations to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall not create an unsafe or hazardous condition or overload existing building systems.		
C503.4 Heating and cooling Systems	New heating, cooling and duct systems that are part of the alteration shall comply with Sections C403.		

ENERGY CODE - PRESS BOXES

MANUAL OF PLANNING STANDARDS 2022			
MANUAL OF PLANNING STANDARDS SUMMARY			
Owner:	North Rockland Central School District	Date:	4/17/2024
Project Name:	NRHS Fields Phase 2 & HVAC Upgrades	Location	Rockland County
Project Number:	43045	Architect of Record	MSA
Project Address:	106 Hammond Rd, Thiells, NY 10984		
APPLICABLE ORDINANCES, CODES & STANDARD			
2020	Existing Building Code of New York State		
2020	Building Code of New York State		
2020	Energy Conservation Code of New York State		
2020	Fire Code of New York State		
GENERAL PROVISIONS			
S14	ACCESSIBLE FACILITIES AND PROGRAMS		
S14-1 Section 504 of the Rehabilitation Act of 1974 (updated July 2003)	c. The requirement for accessible access to all primary functions extends to outdoor recreational facilities. All new athletic fields and recreational facilities shall include an accessible route from the building and/or the parking facilities. This applies to sports fields, track and field elements, playgrounds, tennis and basketball courts, bleachers, dugouts and related facilities.		
APPENDIX C: ATHLETIC FACILITIES AND SITE STRUCTURES			
C003 Grandstands/ Bleachers	a. The Occupancy Classification listed in the Uniform Fire Prevention and Building Code for Grandstands/Bleachers is A-5 (Assembly uses intended for participation in or viewing outdoor activities). b. The primary exit stair to grade from the grandstand/bleacher platform shall be a non-slip surface (not wood). c. New grandstands/bleachers, and replacement units that are substantially larger than the existing units, are required to have toilet facilities in compliance with the Plumbing Code of New York State.		
C004 Press Boxes	b. Press Boxes are considered a B – Business occupancy. Buildings that also include other occupancies such as storage or concession stands, must comply with the Code and NYSED requirements for each occupancy. c. The "Construction Classification" depends on what materials are used in the construction of the building. The materials and fire protection of building components, as well as the height and fire area of the building, are governed by the Code. In addition, Press Boxes must meet the following requirements: 1. Maximum occupancy signs shall be posted at occupied roof levels and inside the press box on the basis of 15 square feet per person. Code compliant egress is required from all occupied levels. 2. Buildings having two usable floor levels (i.e., two enclosed floors with no access to or use of the roof), or one enclosed floor and use of the roof level, must have a minimum Construction Type II-B, III-B or V-A, unless more restrictive type is required by code. 3. Guards per Code are required on three sides of all floor and roof openings, and at open sides of stairs. Handrails are required on both sides of stairs. Usable roof viewing or filming platforms must have compliant guardrails, with a toe board, on all four sides. 4. Hardware on exit doors shall allow instantaneous operation without a key or special knowledge. Dead bolts or padlock hasps are not allowed on any public school owned or occupied building or space. 6. Accessibility by disabled persons is not required for Press Boxes with an aggregate area of 500 square feet or less. However, an outlet or wireless controls for operation of the scoreboard and public address systems is required at an accessible location. 7. Interior and exterior emergency lighting shall be provided in accordance with the Code.		
C007 Dugouts	a. A building permit is required for dugouts if they include storage space or other enclosed areas. Each dugout requires its own permit. For dugouts not exceeding 200 Square feet a full building permit submission will not be required. It will only be necessary to follow the procedure which applies when using Form FP-AU Request for Approval of Use of a Facility. c. All dugouts must be fully accessible and shall include a wheelchair space, turn around area, and accessible openings. An accessible route must be provided to the dugout.		

MANUAL OF PLANNING STANDARDS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by: MAL/JC
Checked by: MS/JC
Project No.: 43045
Scale: AS NOTED
Date: 10-03-24

Landscape Architect & Civil Engineer: THE LA GROUP, LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC, 45 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC, 2 EXECUTIVE BOULEVARD, SUITE 302, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-018-000
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: CODE ANALYSIS - PRESS BOXES

Drawing No.: B-130

2020 NEW YORK STATE BUILDING CODE				
PROJECT/BUILDING INFORMATION				
BUILDING IS NOT SPRINKLERED				
CODE	NEW YORK STATE (2020 IBC AND IEBC)	CODE SECTION REFERENCE	OTHER	ACTUAL/REMARKS
OCCUPANCY	A-5 B	303.6 304.1		
CONSTRUCTION TYPE	VB	Chapter 6: Types of Construction		IIB
MAX. TRAVEL DISTANCE	A without sprinker 200' max B without sprinkler 200' max	1017.2		Baseball: 130'-0" Softball: 79'-0" (Complies)
COMMON PATH OF TRAVEL	A, M without sprinker 75' max S, U without sprinker OL < 30, 100' max	1006.2.1		Baseball: 64'-8" Softball: 75'-0" (Complies)
REMOTENESS OF EXITS	No less than 1/2 of building diagonal	1007.1.1		Baseball: 101'-2" Softball: 76'-7" (Complies)
REQUIRED # OF EXITS	A single exit is permitted to for spaces complying with Section 1006.2.1 with exits that discharge directly to the exterior	1006.3.3.2		Assemb: 2 Provided Press B: 1 Provided (Complies)
MINIMUM CLEAR OPENING WIDTH	32" minimum	1010.1.1		36" Door at Press Box (Complies)
REQUIRED CAPACITY BASED ON OCCUPANT LOAD OTHER	Stair: .3" per Occ x 160 Occ = 48" min, Ramp: .2" per Occ X 160 Occ = 32" min	1005.3.2		1 Stair at 56" 1 Ramp at 56" (Complies)
OCCUPANT LOAD	Softball Bleacher: Fixed Baseball Bleacher: Fixed SB Press Box: 15 per BB Press Box: 15 per	1004.5		Softball Bleacher: 180 Baseball Bleacher: 275 SB Press Box: 7 BB Press Box: 7
2020 SED MANUAL OF PLANNING STANDARDS				
EGRESS AT DUGOUTS	Free egress from all dugouts shall always be provided.	C007.c		Dugouts are provided with free egress openings

EGRESS CODE ANALYSIS

EXIT CAPACITY

SPACE	NO. OF OCCUPANTS	STAIR NO.	STAIR ACTUAL WIDTH	STAIR UNITS PER INCH	STAIR MAX. CAP.	STAIR DOOR AND COMPONENTS NO.	DOOR ACTUAL WIDTH	DOOR UNITS PER INCH	DOOR MAX. CAP.	EXIT AT GRADE NO.	EXIT ACTUAL WIDTH	EXIT UNITS PER INCH	EXIT MAX. CAP.
BUSINESS	7	–	–	–	–	–	–	–	–	–	56"	.20	180
ASSEMBLY (F)	275	–	–	–	–	–	–	–	–	–	56"	.20	300
		TOTAL MAX. CAP.			–	TOTAL MAX. CAP.			–	TOTAL MAX. CAP.			–
										TOTAL EXIT CAPACITY ON FLOOR			–

MAXIMUM TRAVEL DISTANCE TO EXIT (BASEBALL)	130'-0"

EGRESS CALCULATIONS

NUMBER OF RECEIVERS REQUIRED

	CAPACITY	MINIMUN RECEIVERS	RECEIVERS TO BE HEARING AID COMPATIBLE.
SOFTBALL SEATING	190	8	0
BASEBALL SEATING	281	12	3

ASSISTIVE LISTENING RECEIVERS CALC.

Plumbing Fixture Calculations

A-5 (ASSEMBLY) Hockey Field			WC 1 per 75/1 per40		LAV 1 per 200	
			Male	Female	Male	Female
396 Occupants		396	198	198	198	198
Men WC	1 per	75	2.6	5.0	1.0	1.0
Women WC	1 per	40				
Lavatories	1 per	200				
Total Drinking Fountains		500	0.8			

A-5 (ASSEMBLY) Softball bleacher			1 per 75/1 per40		1 per 200	
			Male	Female	Male	Female
190 occ		190	95	95	95	95
Men WC	1 per	75	1.3	2.4	0.5	0.5
Women WC	1 per	40				
Lavatories	1 per	200				
Total Drinking Fountains		500	0.4			

A-5 (ASSEMBLY) Baseball bleacher			1 per 75/1 per40		1 per 200	
		Total	Male	Female	Male	Female
280 occ		280	140	140	140	140
Men WC	1 per	75	1.9	3.5	0.7	0.7
Women WC	1 per	40				
Lavatories	1 per	200				
Total Drinking Fountains		500	0.6			

B (BUSINESS) Pressbox(2)			1 per 25/1 per 25		1 per 40	
		Total	Male	Female	Male	Female
9 Occupants per PB		9	5	5	5	5
Men WC	1 per	25	0.2	0.2	0.1	0.1
Women WC	1 per	25				
Lavatories	1 per	40				
Total Drinking Fountains		100	0.1			

Total For Hockey Field	Required		Provided	
	Male	Female	Male	Female
Water closets	3	5	10	5
Lavatories	1	1	4	4
Drinking Fountains	1		1	

Total For Softball Field	Required		Provided	
	Male	Female	Male	Female
Water closets	2	3	6	3
Lavatories	1	1	5	3
Drinking Fountains	1		1	

Total For Baseball Field	Required		Provided	
	Male	Female	Male	Female
Water closets	3	4	5	5
Lavatories	1	1	3	3
Drinking Fountains	1		1	

PLUMBING CALCULATIONS

Interior Fire Resistant Rated Walls
1 hr
2 hrs
Travel Path

Space Designations
OFFICE — Room Name
0122 — Room Number
E 120 — Occupancy Group / Gross Floor Area (SF)
120 12 — Net Floor Area (SF)/ Occupant Load

Emergency Light
Exit Sign
Directional Exit Sign
Water Fountains
Fe Fire Extinguisher

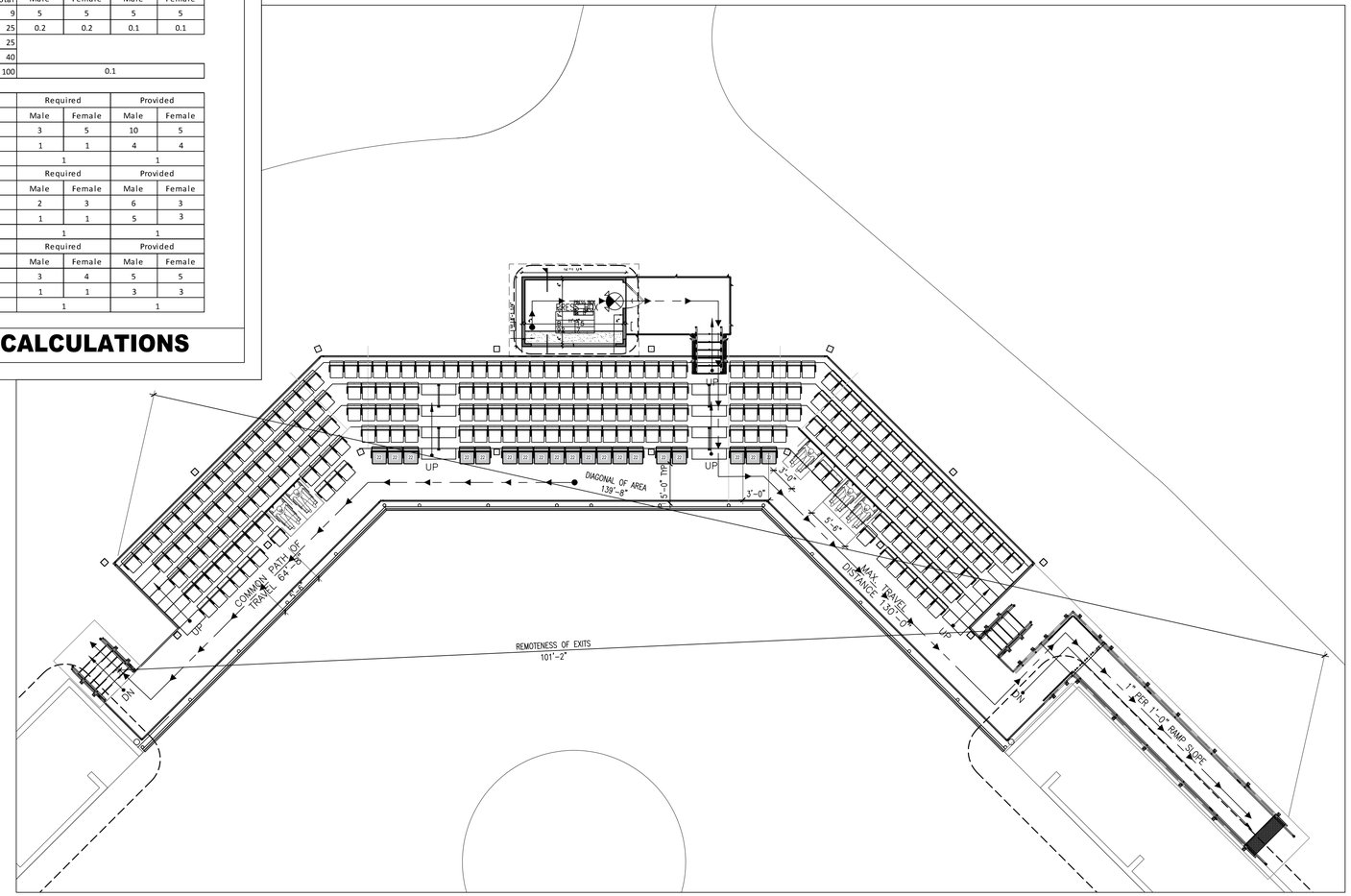
NOTES:
1. *All doors in fire resistant rated walls are fire resistant self-closing type.*

LEGEND

AREA OF WORK

PLAN NORTH

KEY PLAN



1 BASEBALL BLEACHER EGRESS PLAN

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

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

Landscape Architect & Civil Engineer: THE LA GROUP, LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC, 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC, 2 EXECUTIVE BOULEVARD, SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBL# 50-02-01-06-0-016-000
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001
100 Hammond Rd.
Haverstraw, NY 10927
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: EGRESS PLAN BASEBALL BLEACHER

Drawing No. B-190

2020 NEW YORK STATE BUILDING CODE				
PROJECT/BUILDING INFORMATION				
BUILDING IS NOT SPRINKLERED				
CODE	NEW YORK STATE (2020 IBC AND IEBC)	CODE SECTION REFERENCE	OTHER	ACTUAL/REMARKS
OCCUPANCY	A-5 B	303.6 304.1		
CONSTRUCTION TYPE	VB	Chapter 6: Types of Construction		IIB
MAX. TRAVEL DISTANCE	A without sprinker 200' max B without sprinkler 200' max	1017.2		Baseball: 130'-0" Softball: 79'-0" (Complies)
COMMON PATH OF TRAVEL	A, M without sprinker 75' max S, U without sprinker OL < 30, 100' max	1006.2.1		Baseball: 64'-8" Softball: 75'-0" (Complies)
REMOTENESS OF EXITS	No less than 1/2 of building diagonal	1007.1.1		Baseball: 101'-7" Softball: 76'-7" (Complies)
REQUIRED # OF EXITS	A single exit is permitted to for spaces complying with Section 1006.2.1 with exits that discharge directly to the exterior	1006.3.3.2		Assemb: 2 Provided Press B: 1 Provided (Complies)
MINIMUM CLEAR OPENING WIDTH	32" minimum	1010.1.1		36" Door at Press Box (Complies)
REQUIRED CAPACITY BASED ON OCCUPANT LOAD OTHER	Stair: .3" per Occ x 160 Occ = 48" min, Ramp: .2" per Occ X 160 Occ = 32" min	1005.3.2		1 Stair at 56" 1 Ramp at 56" (Complies)
OCCUPANT LOAD	Softball Bleacher: Fixed Baseball Bleacher: Fixed SB Press Box: 15 per BB Press Box: 15 per	1004.5		Softball Bleacher: 180 Baseball Bleacher: 275 SB Press Box: 7 BB Press Box: 7
2020 SED MANUAL OF PLANNING STANDARDS				
EGRESS AT DUGOUTS	Free egress from all dugouts shall always be provided.	C007.c		Dugouts are provided with free egress openings

EGRESS CODE ANALYSIS

EXIT CAPACITY

SPACE	NO. OF OCCUPANTS	STAIR NO.	STAIR ACTUAL WIDTH	STAIR UNITS PER INCH	STAIR MAX. CAP.	STAIR DOOR AND COMPONENTS NO.	STAIR DOOR AND COMPONENTS ACTUAL WIDTH	STAIR DOOR AND COMPONENTS UNITS PER INCH	STAIR DOOR AND COMPONENTS MAX. CAP.	EXIT AT GRADE NO.	EXIT AT GRADE ACTUAL WIDTH	EXIT AT GRADE UNITS PER INCH	EXIT AT GRADE MAX. CAP.
BUSINESS	7	–	–	–	–	–	–	–	–	–	56"	.20	180
ASSEMBLY (F)	180	–	–	–	–	–	–	–	–	–	56"	.20	300
		TOTAL MAX. CAP.			–	TOTAL MAX. CAP.			–	TOTAL MAX. CAP.			–
										TOTAL EXIT CAPACITY ON FLOOR			–
										MAXIMUM TRAVEL DISTANCE TO EXIT (SOFTBALL)			79'-0"

EGRESS CALCULATIONS

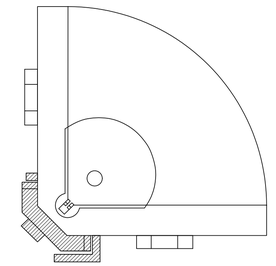
Interior Fire Resistant Rated Walls
1 hr
2 hrs
Travel Path

NOTES:
1. *All doors in fire resistant rated walls are fire resistant self-closing type.*

Space Designations
OFFICE — Room Name
0122 — Room Number
E 120 — Occupancy Group / Gross Floor Area (SF)
120/12 — Net Floor Area (SF)/ Occupant Load

Emergency Light
Exit Sign
Directional Exit Sign
Water Fountains
Fe Fire Extinguisher

LEGEND

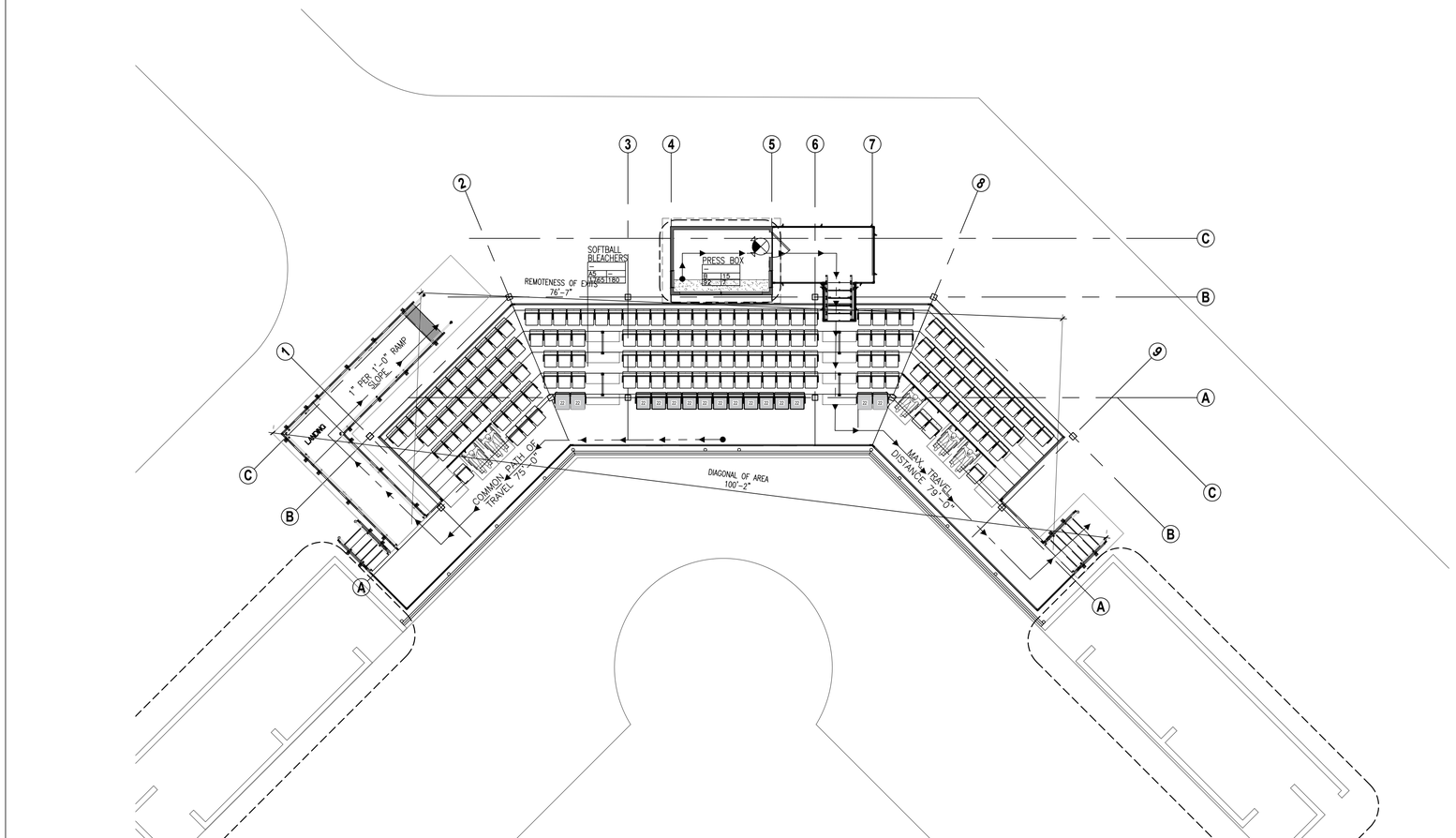


AREA OF WORK

PLAN NORTH

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

KEY PLAN



PLAN NORTH

1 SOFTBALL BLEACHER EGRESS PLAN
SCALE: 1/8" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

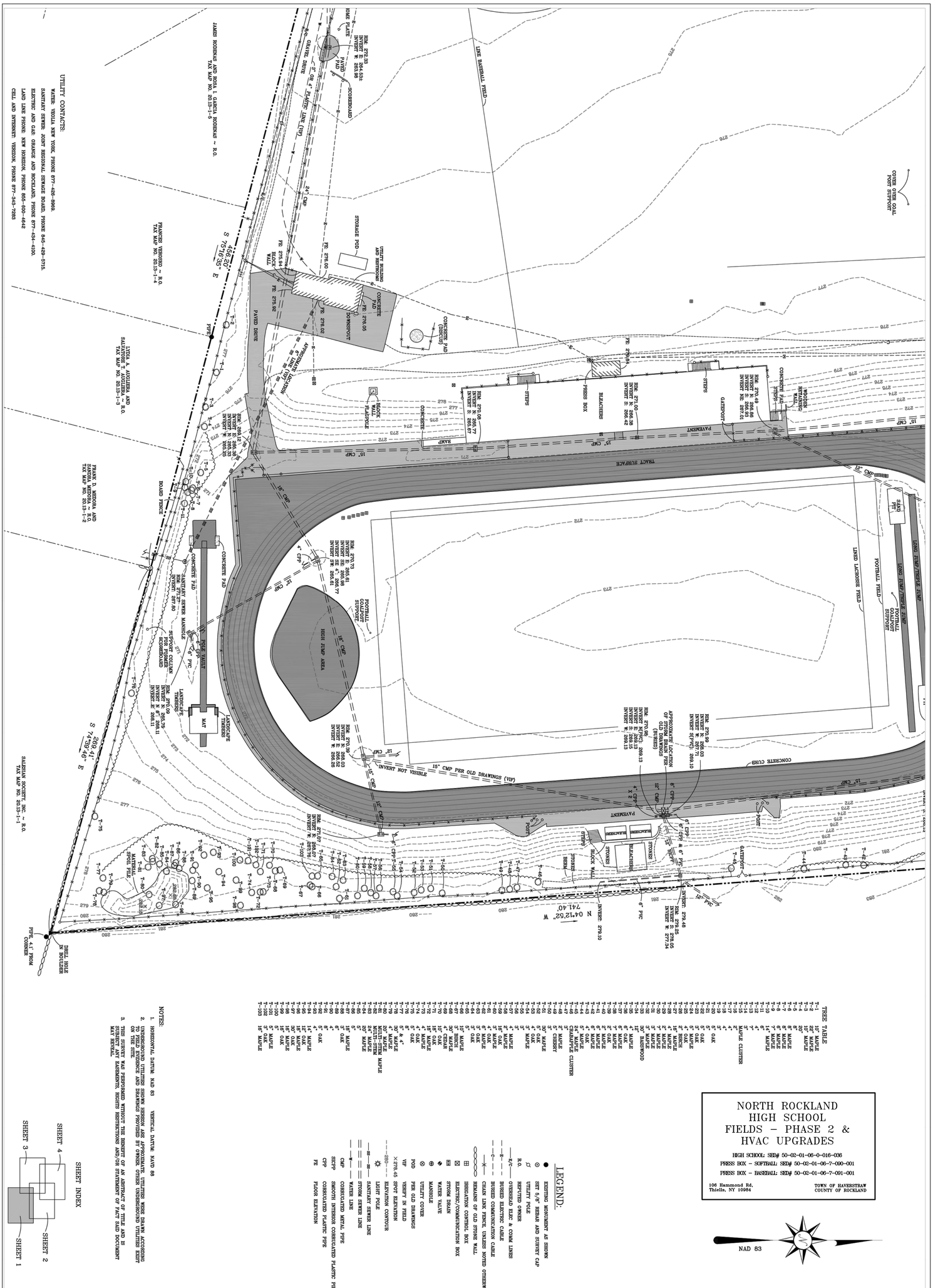
NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBL# 50-02-01-06-0-016-000
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001
186 Hammond Rd.
Pearl River, NY 10965
TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND

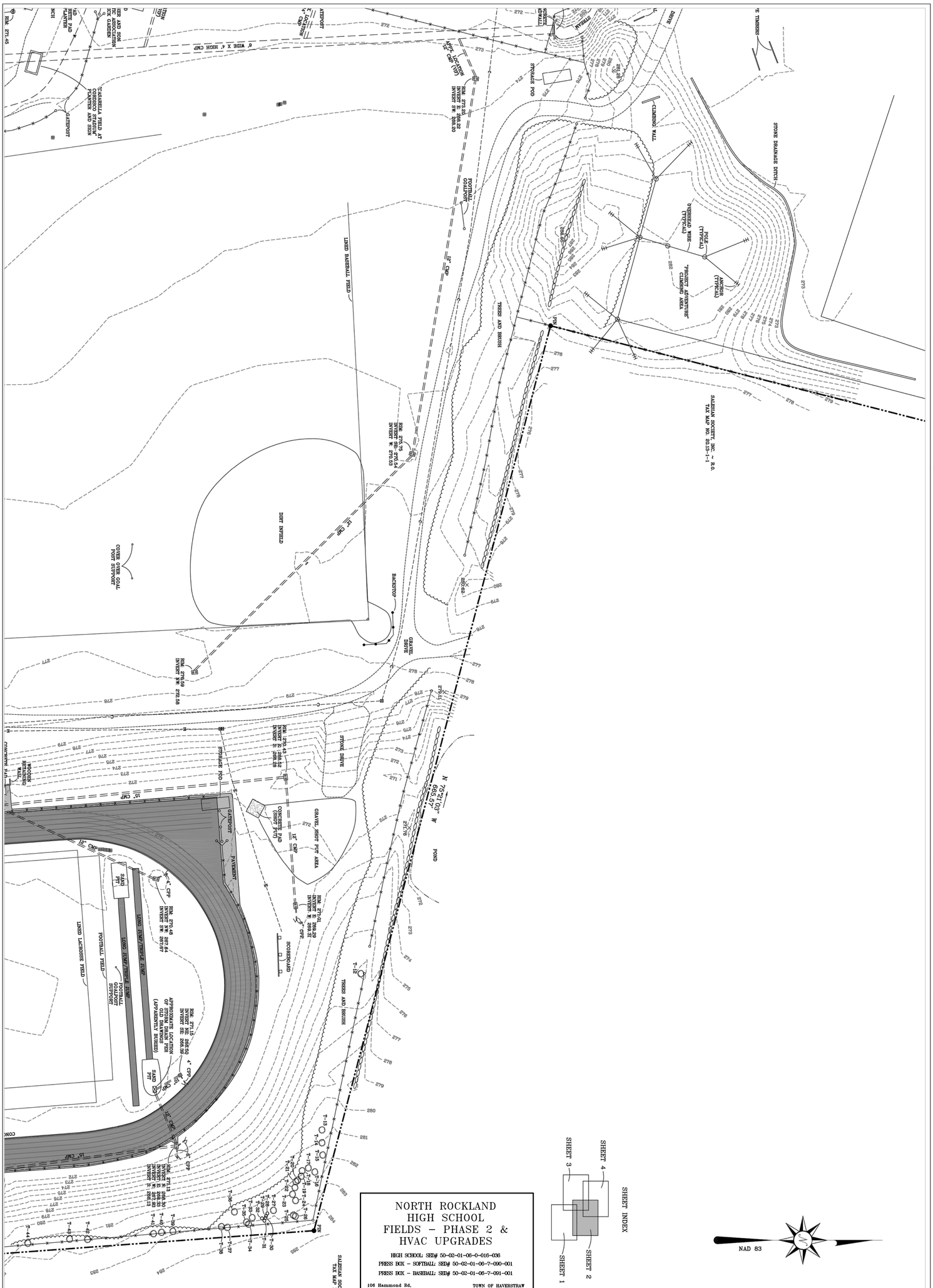
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

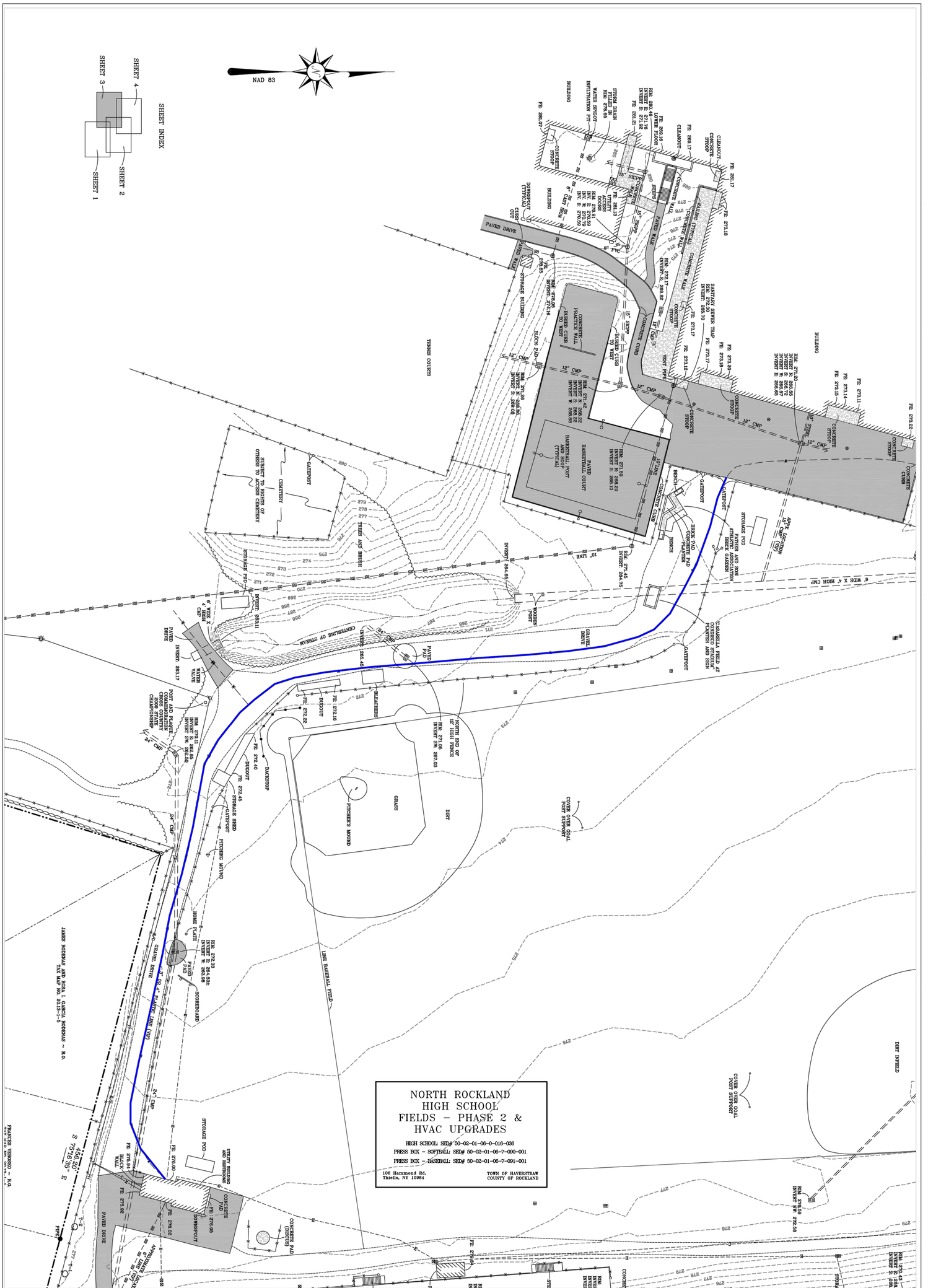
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
EGRESS PLAN SOFTBALL BLEACHER

Drawing No.
B-191


UTILITY CONTACTS:
WATER: VEOLIA NEW YORK, PHONE 877-426-8666
SANITARY SEWER: JOINT REGIONAL SEWAGE BOARD, PHONE 845-429-5715
ELECTRIC AND GAS: ORANGE AND ROCKLAND, PHONE 877-434-4100
LAND LINE PHONE: NEW HORIZON, PHONE 800-600-4642
CELL AND INTERNET: VERIZON, PHONE 877-342-7283
JAMES ROBINSON AND WENDY L. ROBINSON - R.O.
TAX MAP NO. 20.13-1-1
FRANCES VERGERIO - R.O.
TAX MAP NO. 20.13-1-4
SALVATORE J. AGUDERA AND
TAX MAP NO. 20.13-1-5
FRANK D. MEDORA AND
TAX MAP NO. 20.13-1-2
SHADROW SOCIETY INC. - R.O.
TAX MAP NO. 20.13-1-3
S 46°10'20" E
268.47'
S 17°39'40" E
N 04°12'52" W
741.40'
PIPE, 1.5' FROM CORNER
IRON ROD
IRON BOULDER
LINE BASEBALL FIELD
COVER OVER COOL FOOT SUPPORT
STORAGE POD
UTILITY BUILDING AND RESTROOM
CONCRETE PAD
DOWNSPOUT
CONCRETE CAP
PAVED DRIVE
TRACT SURFACE
PAVEMENT
RAMP
STEPS
PRESS BOX
BLEACHERS
GATEPOST
CONCRETE CURB
HIGH JUMP AREA
LONG JUMP/TRIPLE JUMP
FOOTBALL FIELD
LONG JUMP/TRIPLE JUMP
FOOTBALL GOAL SUPPORT
LANDSCAPE TIMBERS
CONCRETE PAD
SANITARY SEWER MANHOLE
POWER POLE
SUPPORT COLUMN FOR SCOREBOARD
SCOREBOARD
LACROSSE GOAL
LACROSSE GOAL
LACROSSE GOAL
LACROSSE GOAL
MAT
MAT
MAT


NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES
HIGH SCHOOL: SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SED# 50-02-01-06-7-090-001
PRESS BOX - BASEBALL: SED# 50-02-01-06-7-091-001
106 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND
SHEET INDEX
SHEET 1
SHEET 2
SHEET 3
SHEET 4
NAD 83
N 72°21'09" W
668.67'
LINED BASEBALL FIELD
LINED LACROSSE FIELD
FOOTBALL FIELD
LONG JUMP/TRIPLE JUMP
HIGH JUMP
POLE VAULT
SHOT PUT
DISCUS
SCOREBOARD
CONCRETE PAD
GRAVEL PATH
BLACKTOP
PAVEMENT
GATEPOST
RETAINING WALL
STONE RETAINING WALL
STONE DRAINAGE DITCH
TREES AND BRUSH
SANITARY SEWER MH
SANITARY SEWER MH TAX MAP NO. 19.16-1-1
SANITARY SEWER MH TAX MAP NO. 19.13-1-1 ~ 2.2
FOOTBALL GOALPOST
SPRUCE POD
ASPHALT PAD
CONCRETE PAD
GRAVEL PATH
STONE DUST
STONE DRIVE
CABLE DRIVE
ASPHALT PATH
CONC. PATH
CONC. OUTER COVER
CONC. INNER COVER
CONC. CURB
CONC. WALL
CONC. STEPS
CONC. FOOTING
CONC. PIER
CONC. PIER (TYPICAL)
CONC. PIER ANCHOR (TYPICAL)
CONC. PIER ANCHOR



OWASCO LAND SURVEYING
106 RAILROAD STREET
GROTON, NEW YORK
PHONE: (607) 898-5051
email: owascols@outlook.com

JOB NO.: 22-021 SCALE: 1"=30'
DRAWN BY: BMK DATED: JUNE 1, 2022

SIGNED: _____

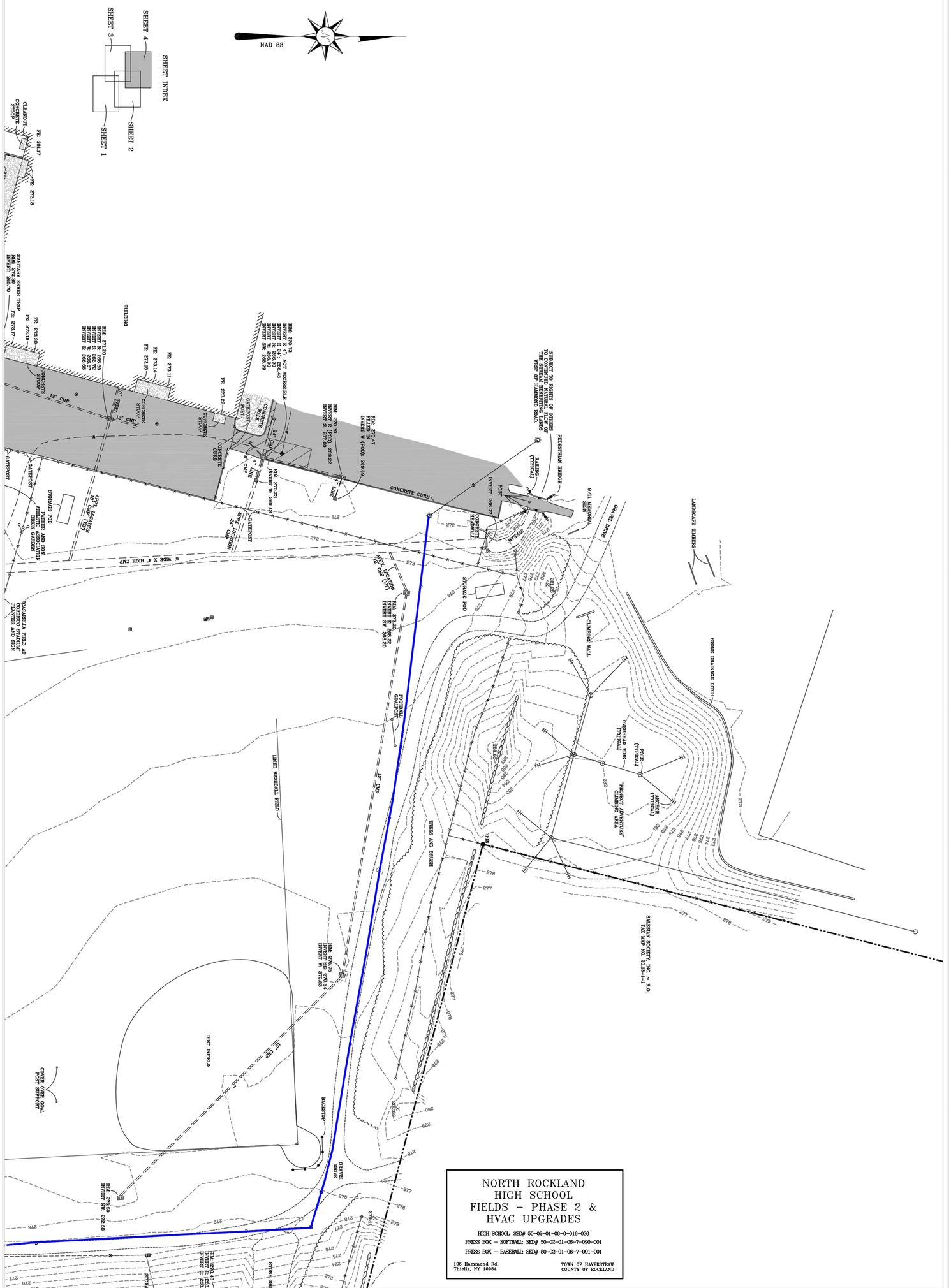
"Copyright 2022: All Rights Reserved, Owasco Land Surveying"

STATE OF NEW YORK
BRIAN M. KLUMP
NO. 050060
LICENSED LAND SURVEYOR

BOUNDARY LINE AND TOPOGRAPHIC SURVEY FOR HAVERSTRAW - STONY POINT CENTRAL SCHOOL DISTRICT

NORTH ROCKLAND HIGH SCHOOL - AREA A

TOWN OF HAVERSTRAW ~ COUNTY OF ROCKLAND ~ STATE OF NEW YORK
106 HAMMOND ROAD ~ TAX MAP NO. 19.16-1-11



OWASCO LAND SURVEYING
106 RAILROAD STREET
GROTON, NEW YORK
PHONE: (607) 898-5051
email: owascols@outlook.com

JOB NO.: 22-021 SCALE: 1"=30'
DRAWN BY: BMK DATED: JUNE 1, 2022

SIGNED: _____

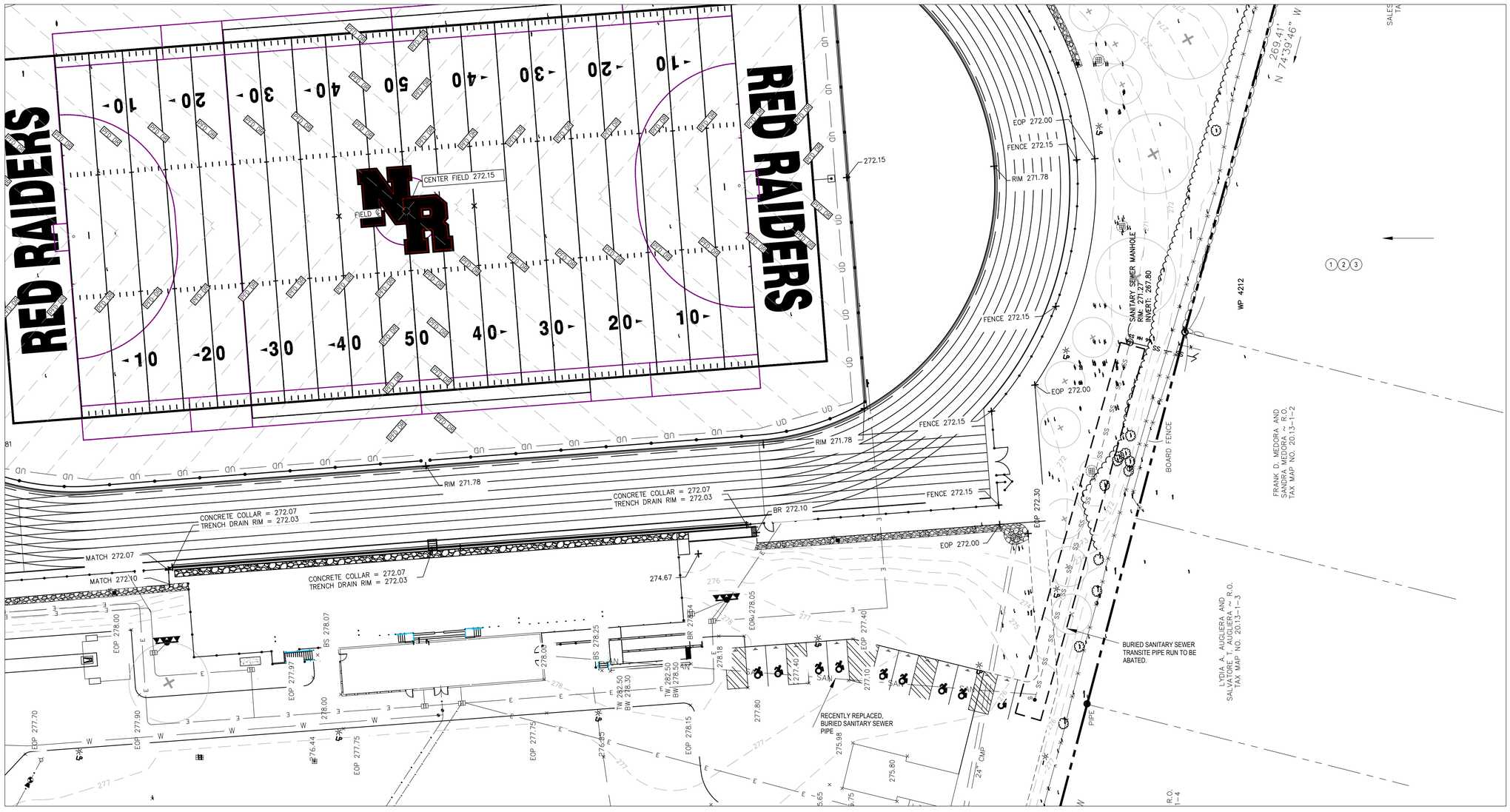
"Copyright 2022: All Rights Reserved, Owasco Land Surveying"

STATE OF NEW YORK
WILLIAM V. KLUMPP
NO. 050890
LICENSED LAND SURVEYOR

BOUNDARY LINE AND TOPOGRAPHIC SURVEY FOR HAVERSTRAW - STONY POINT CENTRAL SCHOOL DISTRICT

NORTH ROCKLAND HIGH SCHOOL - AREA A

TOWN OF HAVERSTRAW ~ COUNTY OF ROCKLAND ~ STATE OF NEW YORK
106 HAMMOND ROAD ~ TAX MAP NO. 19.16-1-11



ASBESTOS ABATEMENT LEGEND

CONTRACTOR SHALL REMOVE AND REPLACE APPROXIMATELY 160 LF OF TRANSITE SANITARY SEWER MAIN TO ENTRANCE OF MANHOLE 99.

CONTRACTOR SHALL NOTIFY U-DIG NY #811 TO LOCATE ALL BURIED UTILITY MAINS AND SERVCES.

CONTRACTOR SHALL MEET WITH FACILITY MAINTENANCE AND OWNER TO DETERMINE THE KINDS AND TYPES OF PRIVATELY OWNED UTILITIES WHICH MAY EXIST IN THE WORK AREA.

CONTRACTOR SHALL OPEN MANHOLE COVERS AND DETERMINE THE APPROXIMATE DEPTH OF TRANSITE SEWER PIPE. NEXT, A LINE SHALL BE SET ON THE GROUND TO AVOID DIGGING ON TOP OF THE EXISTING TRANSITE PIPE TO AVOID CRUSHING IT. CONTRACTOR SHALL COORDINATE WITH FACILIITY MAINTENANCE, THE SHUTDOWN OF ALL WASTE SOURCES THAT CONTRIBUTE TO THE SANITARY SEWER FLOW. THESE SHALL BE PLUGGED AS NECESSARY.

THE CONTRACTOR SHALL EXPOSE THE LINE ON ONE SIDE OF HIS TRENCH, NOTING WHEN THE BACKFILL MATERIAL CHANGES TO THE PIPE TRENCH BACKFILL ENVELOPE.

WITH THE PIPE EXPOSED ON THE SIDE. SURPLUS EXCAVATED MATERIALS FROM TRENCHING SHALL BE SET ALONG THE SIDE OF THE TRENCH. NEXT, CONTRACTOR SHALL EXCAVATE TO THE TOP OF THE PIPE ENVELOPE AND CONTINUE BY HAND EXCAVATING WHEN NECESSARY, TO EXPOSE THE ENTIRE PIPE RUN.

IF MANHOLE AND PIPING BEYOND IT ARE TO REMAIN , THEN REMOVE TRANSITE PIPE UP TO MANHOLE. INSTALL NEW SDR 35 PIPE AND GROUT TO SEAL AND PLUG PIPE.

REFER TO SITE WORK FOR NEW SANITARY MAIN REPLACEMENT PROCEDURES.
REFER TO ASBESTOS ABATEMENT SPECIFICATION 020800 - 3.17 FOR A MORE DETAILED DESCRIPTION OF THE ABATEMENT WORK REQUIREMENTS .

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

STATE OF NEW YORK — ANDREW NICHOLAS MELUSO — 030951 — LICENSED PROFESSIONAL ENGINEER

REG. EXP DATE: 11-30-25

Drawn by	AM
Checked by	RL
Project No.	43045
Scale	AS NOTED
Date	09-17-24

Landscape Architect& Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Environmental Consultant:
Quality Environmental Solutions & Technologies, Inc.
1275 ROUTE 9 WAPPINGERS FALLS, NY 12590

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBM# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SED# 50-02-01-06-7-001-001
190 Braunscroft Rd.
Haverstraw, NY 10994

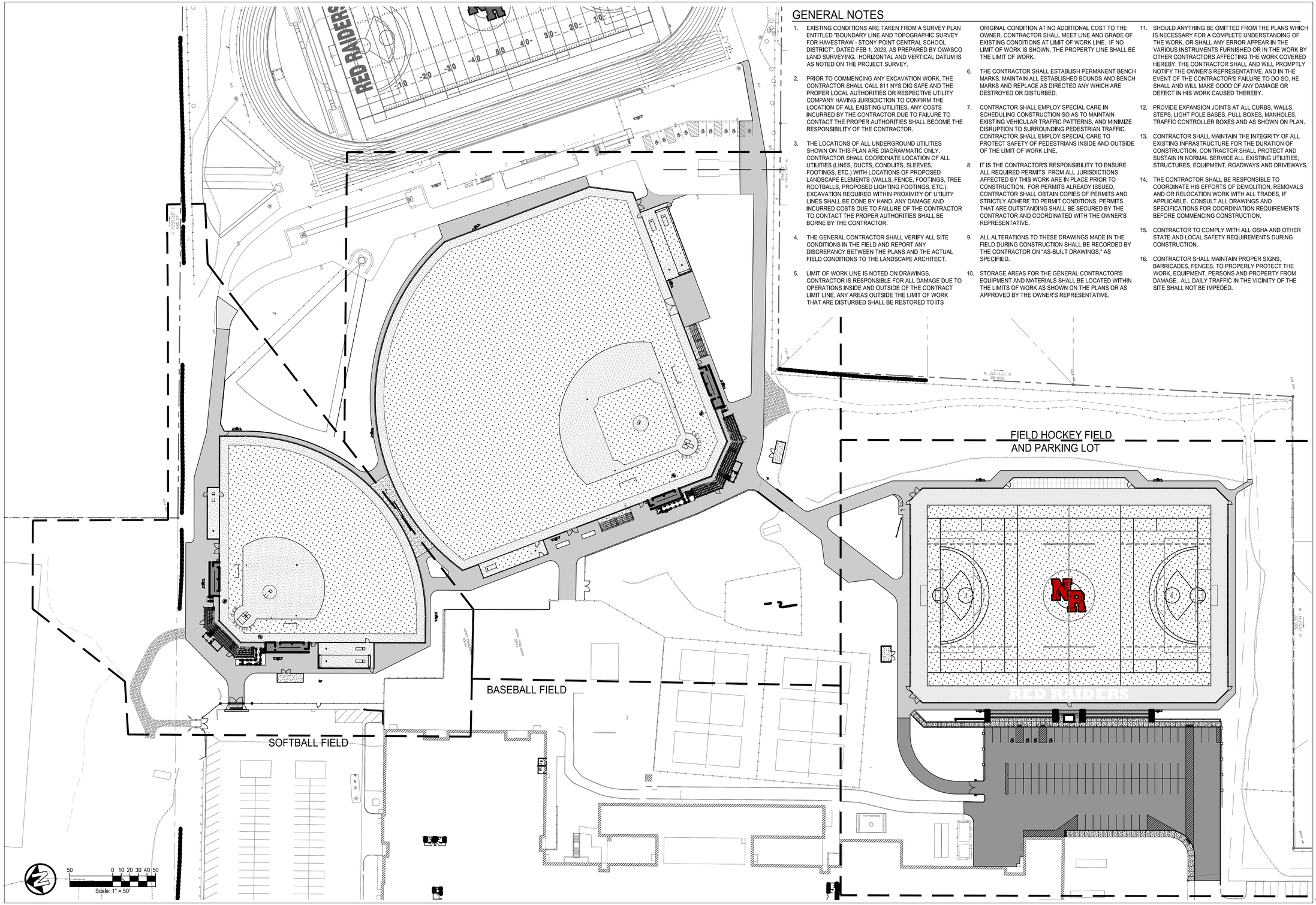
TOWN OF HAVERSTRAW
TOWN OF ORANGEBURG

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, LLP., ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-8020
www.shilale.com

Drawing Title
ASBESTOS ABATEMENT PLAN

Drawing No.
AA-100



GENERAL NOTES

1. EXISTING CONDITIONS ARE TAKEN FROM A SURVEY PLAN ENTITLED "BOUNDARY LINE AND TOPOGRAPHIC SURVEY FOR HAVESTRAW - STONY POINT CENTRAL SCHOOL DISTRICT", DATED FEB 1, 2023, AS PREPARED BY OWASCO LAND SURVEYING. HORIZONTAL AND VERTICAL DATUM IS AS NOTED ON THE PROJECT SURVEY.
2. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL CALL 811 NYS DIG SAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCY BETWEEN THE PLANS AND THE ACTUAL FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT.
5. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE. IF NO LIMIT OF WORK IS SHOWN, THE PROPERTY LINE SHALL BE THE LIMIT OF WORK.
6. THE CONTRACTOR SHALL ESTABLISH PERMANENT BENCH MARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCH MARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
7. CONTRACTOR SHALL EMPLOY SPECIAL CARE IN SCHEDULING CONSTRUCTION SO AS TO MAINTAIN EXISTING VEHICULAR TRAFFIC PATTERNS, AND MINIMIZE DISRUPTION TO SURROUNDING PEDESTRIAN TRAFFIC. CONTRACTOR SHALL EMPLOY SPECIAL CARE TO PROTECT SAFETY OF PEDESTRIANS INSIDE AND OUTSIDE OF THE LIMIT OF WORK LINE.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED PERMITS FROM ALL JURISDICTIONS AFFECTED BY THIS WORK ARE IN PLACE PRIOR TO CONSTRUCTION. FOR PERMITS ALREADY ISSUED, CONTRACTOR SHALL OBTAIN COPIES OF PERMITS AND STRICTLY ADHERE TO PERMIT CONDITIONS. PERMITS THAT ARE OUTSTANDING SHALL BE SECURED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER'S REPRESENTATIVE.
9. ALL ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON "AS-BUILT DRAWINGS," AS SPECIFIED.
10. STORAGE AREAS FOR THE GENERAL CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE LOCATED WITHIN THE LIMITS OF WORK AS SHOWN ON THE PLANS OR AS APPROVED BY THE OWNER'S REPRESENTATIVE.
11. SHOULD ANYTHING BE OMITTED FROM THE PLANS WHICH IS NECESSARY FOR A COMPLETE UNDERSTANDING OF THE WORK, OR SHALL ANY ERROR APPEAR IN THE VARIOUS INSTRUMENTS FURNISHED OR IN THE WORK BY OTHER CONTRACTORS AFFECTING THE WORK COVERED HEREBY, THE CONTRACTOR SHALL AND WILL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE, AND IN THE EVENT OF THE CONTRACTOR'S FAILURE TO DO SO, HE SHALL AND WILL MAKE GOOD OF ANY DAMAGE OR DEFECT IN HIS WORK CAUSED THEREBY.
12. PROVIDE EXPANSION JOINTS AT ALL CURBS, WALLS, STEPS, LIGHT POLE BASES, PULL BOXES, MANHOLES, TRAFFIC CONTROLLER BOXES AND AS SHOWN ON PLAN.
13. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXISTING INFRASTRUCTURE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS AND DRIVEWAYS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS EFFORTS OF DEMOLITION, REMOVALS AND OR RELOCATION WORK WITH ALL TRADES, IF APPLICABLE. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
15. CONTRACTOR TO COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION.
16. CONTRACTOR SHALL MAINTAIN PROPER SIGNS, BARRICADES, FENCES, TO PROPERLY PROTECT THE WORK, EQUIPMENT, PERSONS AND PROPERTY FROM DAMAGE. ALL DAILY TRAFFIC IN THE VICINITY OF THE SITE SHALL NOT BE IMPEDED.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawn by KMK
Checked by JFK
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering P.C. Poughkeepsie, New York

Structural Engineer: - - -

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-600-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-601-001
106 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
SITE KEY PLAN

Drawing No.
C-100
of X

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON DRAWING C-100 FOR ADDITIONAL INFORMATION .
2. ALL SIGNAGE SHALL CONFORM TO REQUIREMENTS SET FORTH BY MUTCD AND ICC A117.1-2009.

SED PARKING TABLE

TOTAL PARKING SPACES	NUMBER OF SPACES REQUIRED
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2% OF TOTAL
OVER 1,000	20 PLUS 1 FOR EACH 100 OVER 1,000

82 TOTAL PARKING SPACES

4 ACCESSIBLE SPACES REQUIRED

4 ACCESSIBLE SPACES PROVIDED ON PLANS

EXISTING ACCESSIBLE PARKING TO REMAIN

EXISTING CONCESSION STAND AND TOILET BUILDING

ACCESSIBLE ROUTE (TYPICAL)

GATE AT FLUSH CURB TO ACCESS FIELD.

CHAIR LIFT AT EACH DUGOUT

ACCESSIBLE RAMP ONTO GRANDSTAND

TEAM AREA FLUSH WITH FIELD

GATE AT FLUSH CURB TO ACCESS FIELD. (TYPICAL)

14 C-711 ADA ACCESSIBLE PARKING SIGNAGE (4 STALLS & 2 NO PARKING STALLS) INSTALL SIGN POSTS BETWEEN RAILING AND WALL ALIGNED WITH EACH PARKING SPACE.

ACCESSIBLE PEDESTRIAN RAMP TO FIELD LEVEL

13 C-711 ADA ACCESSIBLE PARKING (4 STALLS & 2 NO PARKING STALLS)

50 0 10 20 30 40 50

Scale: 1" = 50'

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by KMK

Checked by JFK

Project No. 43045

Scale AS NOTED

Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Hudson Valley

Landscape Architect & Civil Engineer: - - -

Structural Engineer: - - -

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-006
PRESS BOX – SOFTBALL SED# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SED# 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

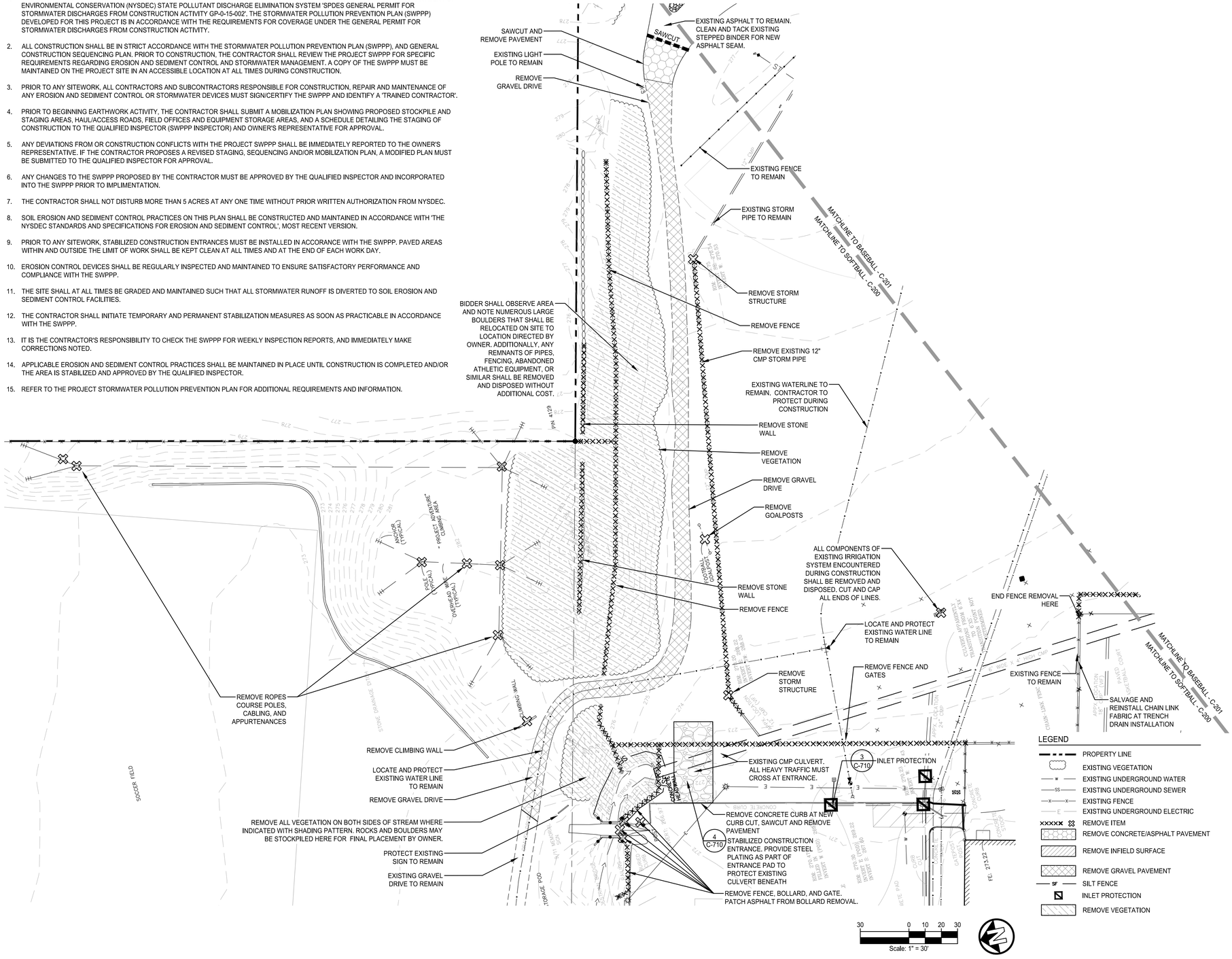
Drawing Title
SITE CODE COMPLIANCE PLAN

Drawing No.
C-101

of X

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENT FOR PERMIT COVERAGE UNDER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM 'SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY GP-0-15-002'. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THIS PROJECT IS IN ACCORDANCE WITH THE REQUIREMENTS FOR COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY.
2. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND GENERAL CONSTRUCTION SEQUENCING PLAN. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW THE PROJECT SWPPP FOR SPECIFIC REQUIREMENTS REGARDING EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT. A COPY OF THE SWPPP MUST BE MAINTAINED ON THE PROJECT SITE IN AN ACCESSIBLE LOCATION AT ALL TIMES DURING CONSTRUCTION.
3. PRIOR TO ANY SITEWORK, ALL CONTRACTORS AND SUBCONTRACTORS RESPONSIBLE FOR CONSTRUCTION, REPAIR AND MAINTENANCE OF ANY EROSION AND SEDIMENT CONTROL OR STORMWATER DEVICES MUST SIGN/CERTIFY THE SWPPP AND IDENTIFY A 'TRAINED CONTRACTOR'.
4. PRIOR TO BEGINNING EARTHWORK ACTIVITY, THE CONTRACTOR SHALL SUBMIT A MOBILIZATION PLAN SHOWING PROPOSED STOCKPILE AND STAGING AREAS, HAUL/ACCESS ROADS, FIELD OFFICES AND EQUIPMENT STORAGE AREAS, AND A SCHEDULE DETAILING THE STAGING OF CONSTRUCTION TO THE QUALIFIED INSPECTOR (SWPPP INSPECTOR) AND OWNER'S REPRESENTATIVE FOR APPROVAL.
5. ANY DEVIATIONS FROM OR CONSTRUCTION CONFLICTS WITH THE PROJECT SWPPP SHALL BE IMMEDIATELY REPORTED TO THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR PROPOSES A REVISED STAGING, SEQUENCING AND/OR MOBILIZATION PLAN, A MODIFIED PLAN MUST BE SUBMITTED TO THE QUALIFIED INSPECTOR FOR APPROVAL.
6. ANY CHANGES TO THE SWPPP PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE QUALIFIED INSPECTOR AND INCORPORATED INTO THE SWPPP PRIOR TO IMPLIMENTATION.
7. THE CONTRACTOR SHALL NOT DISTURB MORE THAN 5 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC.
8. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH 'THE NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL', MOST RECENT VERSION.
9. PRIOR TO ANY SITEWORK, STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED IN ACCORANCE WITH THE SWPPP. PAVED AREAS WITHIN AND OUTSIDE THE LIMIT OF WORK SHALL BE KEPT CLEAN AT ALL TIMES AND AT THE END OF EACH WORK DAY.
10. EROSION CONTROL DEVICES SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE SATISFACTORY PERFORMANCE AND COMPLIANCE WITH THE SWPPP.
11. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
12. THE CONTRACTOR SHALL INITIATE TEMPORARY AND PERMANENT STABILIZATION MEASURES AS SOON AS PRACTICABLE IN ACCORDANCE WITH THE SWPPP.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE SWPPP FOR WEEKLY INSPECTION REPORTS, AND IMMEDIATELY MAKE CORRECTIONS NOTED.
14. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED AND APPROVED BY THE QUALIFIED INSPECTOR.
15. REFER TO THE PROJECT STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



SITE PREPARATION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH OWNER/OWNER'S REPRESENTATIVE TO REVIEW ALL APPLICABLE PERMIT CONDITIONS, THE CONSTRUCTION PLANS AND GENERAL CONSTRUCTION SCHEDULE.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GENERAL SURVEY NOTES, UTILITY NOTES AND UTILITY LOCATING SERVICE REQUIREMENTS. NO WORK SHALL COMMENCE UNTIL UNDERGROUND UTILITIES WITHIN THE SITE HAVE BEEN IDENTIFIED AND LOCATED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTH DISTURBING ACTIVITIES. REFER TO PROJECT PLANS, NOTES AND DETAILS.
4. THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY AND PAY ALL ASSOCIATED COSTS.

PROTECTION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK DUE TO THEIR CONTRACT OPERATIONS.
2. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS AND DRIVEWAYS.
3. CONTRACTOR SHALL MAINTAIN NECESSARY TRAFFIC CONTROL DEVICES, DRUMS, DELINEATORS, SIGNS, FENCES, AND BARRICADES IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL MUTCD WITH NYS SUPPLEMENT TO PROPERLY PROTECT WORK, EQUIPMENT, PERSONS, AND PROPERTY FROM DAMAGE.
4. BEFORE ANY CLEARING IS DONE, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNERS REPRESENTATIVE TO IDENTIFY TREES WHICH ARE TO BE PROTECTED OR REMOVED. DO NO CLEARING WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND PLANTS DESIGNATED TO REMAIN FOR THE LENGTH OF THE CONSTRUCTION PERIOD AND SHALL, AT A MINIMUM, INSTALL TREE PROTECTION FENCE IN ACCORDANCE WITH PROJECT PLANS, DETAILS AND SPECIFICATIONS. VEHICLES SHALL NOT BE PARKED WITHIN THE DRIP LINE OR WHERE DAMAGE MAY RESULT TO TREES TO BE SAVED, AND CONSTRUCTION MATERIALS SHALL NOT BE STORED BENEATH TREES TO BE SAVED.
6. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OF THE TREE PROTECTION FENCING FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INITIATION OF SITE WORK OPERATIONS.
7. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.

REMOVALS NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND RECYCLED/DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED, RECYCLED, OR DISPOSED OF MUST BE DONE SO IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
2. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE UNLESS OTHERWISE NOTED.
3. EXISTING ITEMS INDICATED TO BE SALVAGED OR STOCKPILED SHALL BE CAREFULLY REMOVED AND STORED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. TREE, SHRUB AND VEGETATION REMOVAL SHALL INCLUDE THE FELLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEM AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED THROUGH THE REMOVAL OPERATIONS. FELL TREES IN SUCH A WAY AS TO NOT DAMAGE ADJACENT BUILDINGS OR OTHER TREES TO BE SAVED.
5. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN LIMIT OF GRADING BEFORE COMMENCING EXCAVATION AND GRADING OPERATIONS. TOPSOIL SHALL NOT BE REMOVED FROM THE SITE, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by KMK | Checked by JFK | Project No. 43045 | Scale AS NOTED | Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Region Since 1965

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-7-010-000
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001

106 Haverstraw Rd.
Suffern, NY 10901

TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **DEMO PLAN - SOFTBALL FIELD**

Drawing No.: **C-200** of X

PROTECT AND RESTORE TWO EXISTING DOWNSPOUT CONNECTIONS TO STORM PIPE BEING REPLACED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPLACEMENT OF THE STORM PIPE, SPECIFICALLY PROTECTION OF EXISTING BUILDING AND SAW CUTTING AND REPLACEMENT OF ADJACENT ASPHALT EDGE.

MATCHLINE TO INSET - C-201

MATCHLINE TO BASEBALL - C-201

ALL COMPONENTS OF EXISTING IRRIGATION SYSTEM ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED AND DISPOSED. CUT AND CAP ALL ENDS OF LINES

EXISTING WATERLINE TO REMAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION

REMOVE EXISTING 24" CMP STORM LINE

REMOVE FENCE

REMOVE SCOREBOARD, WIRE, AND CONDUIT.

REMOVE STORM STRUCTURE AND RELATED PAVED COLLAR

REMOVE PITCHING MOUND AND HOME PLATE

REMOVE ALL CLAY INFIELD MIX, PLATES, BASES, AND PITCHING RUBBER.

REMOVE STORAGE SHED

REMOVE DUGOUT

CUT AND CAP WATERLINE WITH PRESSURE RATED CAP

REMOVE BACKSTOP AND FENCE

REMOVE DUGOUT

REMOVE BLEACHERS

EXISTING WATER, FIBER OPTIC, AND ELECTRIC LINE TO REMAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION

REMOVE CATCH BASIN AND PAVED COLLAR. EXISTING PIPE TO REMAIN.

REMOVE FENCE AND GATES

ALL COMPONENTS OF EXISTING IRRIGATION SYSTEM ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED AND DISPOSED. CUT AND CAP ALL ENDS OF LINES.

END FENCE REMOVAL HERE

EXISTING FENCE TO REMAIN

SALVAGE AND REINSTALL CHAIN LINK FABRIC AT TRENCH DRAIN INSTALLATION

PROTECT EXISTING FENCE AT CORNER DURING STORM PIPE REMOVAL

REMOVE EXISTING 24" CMP STORM LINE TO FACILITATE NEW PIPE INSTALLATION

2 / C-710 SILT FENCE

REMOVE STORM STRUCTURE

REMOVE UTILITY POLE

2 / C-710 SILT FENCE

REMOVE VEGETATION

REMOVE WATERLINE UP TO EXISTING VALVE

SEE DRAWING C-202 FOR CONTINUATION

2 / C-710 SILT FENCE

REMOVE EXISTING CULVERT. THE CONTRACTOR IS EXPECTED TO BE FAMILIAR WITH ALL CONDITIONS AT THE CULVERT. REMOVAL AND DISPOSAL OF ALL CONCRETE, BLOCKS, VEGETATION, ROCKS, AND SIMILAR EXISTING MATERIALS ARE TO BE INCLUDED IN CONTRACTORS BID. HANDLING OF STREAM WATER AND MOVEMENT OF STREAM SEDIMENTS SHALL ADDITIONALLY BE PLANNED FOR AND INCLUDED IN BID.

FOR SHADING PATTERN INDICATED, SELECTIVELY REMOVE AND GRUB ALL TREES UNDER 6" DBH AND ALL VINES, SHRUBS, AND NON-WOODY VEGETATION. REMOVE AND DISPOSE OF ALL DOWNED LOGS AND LIMBS. FINE GRADE EXISTING TOPSOIL SMOOTH, SEED, MULCH, AND FERTILIZE AREA FOR LAWN.

7 / C-710 TEMPORARY COFFER DAM AND BYPASS PUMP SEE NOTES THIS SHEET REGARDING CULVERT WORK.

EROSION AND SEDIMENT CONTROL NOTES

REFER TO C-200 FOR EROSION AND SEDIMENT CONTROL NOTES.

SITE PREPARATION NOTES:

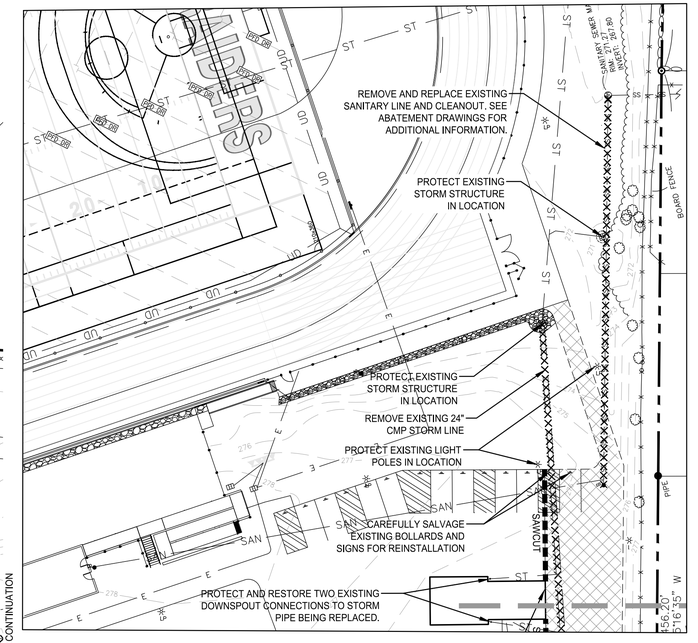
REFER TO C-200 FOR SITE PREPARATION NOTES.

PROTECTION NOTES:

REFER TO C-200 FOR PROTECTION NOTES.

REMOVALS NOTES:

REFER TO C-200 FOR REMOVALS NOTES.



REMOVALS INSET

CONSTRUCTION SEQUENCE FOR CULVERT WORK

1. CONTRACTOR TO SEQUENCE WORK TO LIMIT PUMPING TO THE SHORTEST PERIOD PRACTICAL AND DURING TIMES OF LOW OR NO FLOW IN THE STREAM. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS REGARDLESS OF QUANTITY OR DURATION OF PUMPING REQUIRED.
2. CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF THE STREAM AS NECESSARY TO FACILITATE NEW CULVERT INSTALLATION "IN-THE-DRY." PUMP PATH SHALL BE DIRECTED TO THE DOWNSTREAM SIDE OF THE STREAM AS SHOWN.
3. CONTRACTOR TO SUBMIT PROPOSED CONSTRUCTION SEQUENCE TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. IN GENERAL, SEQUENCE SHALL FOCUS ON REMOVAL AND REPLACEMENT OF STORM INFRASTRUCTURE AS SHOWN AS EFFICIENTLY AS POSSIBLE TO LIMIT NEED FOR BYPASS PUMPING.
4. TEMPORARY STRUCTURAL EROSION CONTROLS SHALL BE INSTALLED PRIOR TO EARTHWORK.

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- W — EXISTING UNDERGROUND WATER
- SS — EXISTING UNDERGROUND SEWER
- X — EXISTING FENCE
- E — EXISTING UNDERGROUND ELECTRIC
- XXXXX — REMOVE ITEM
- REMOVE CONCRETE/ASPHALT PAVEMENT
- REMOVE INFIELD SURFACE
- REMOVE GRAVEL PAVEMENT
- sf — SILT FENCE
- INLET PROTECTION

30 0 10 20 30
Scale: 1" = 30'

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by KMK
Checked by JFK
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-08-0-010.000
PRESS BOX – SOFTBALL SBL# 50-02-01-08-7-000.001
PRESS BOX – BASEBALL SBL# 50-02-01-08-7-001.001

TOM Stansbrook Rd.
Pomona, NY 10970

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
DEMO PLAN - BASEBALL FIELD

Drawing No.
C-201
of X

EROSION AND SEDIMENT CONTROL NOTES

REFER TO C-200 FOR EROSION AND SEDIMENT CONTROL NOTES.

SITE PREPARATION NOTES:

REFER TO C-200 FOR SITE PREPARATION NOTES.

PROTECTION NOTES:

REFER TO C-200 FOR PROTECTION NOTES.

REMOVALS NOTES:

REFER TO C-200 FOR REMOVALS NOTES.

SEE DRAWING C-201 FOR CONTINUATION

REMOVE UTILITY POLE

SILT FENCE (2 / C-710)

EXISTING STREAM TO NOT BE DISTURBED DURING DEMOLITION AND NEW STORM LINE INSTALLATION

REMOVE UTILITY POLE AND GUY WIRE

REMOVE UTILITY POLE AND GUY WIRE

REMOVE BACKSTOP AND FENCE

REMOVE BLEACHERS

REMOVE UTILITY POLE AND GUY WIRE

REMOVE UTILITY PEDESTAL

REMOVE STORM STRUCTURE. EXISTING PIPE TO STREAM TO REMAIN.

REMOVE VEGETATION

REMOVE WATERLINE UP TO EXISTING VALVE

MATCHLINE TO BASEBALL C-201

MATCHLINE TO HOCKEY C-200

REMOVE EXISTING CULVERT. THE CONTRACTOR IS EXPECTED TO BE FAMILIAR WITH ALL CONDITIONS AT THE CULVERT. REMOVAL AND DISPOSAL OF ALL CONCRETE, BLOCKS, VEGETATION, ROCKS, AND SIMILAR EXISTING MATERIALS ARE TO BE INCLUDED IN CONTRACTORS BID. HANDLING OF STREAM WATER AND MOVEMENT OF STREAM SEDIMENTS SHALL ADDITIONALLY BE PLANNED FOR AND INCLUDED IN BID.

FOR SHADING PATTERN INDICATED, SELECTIVELY REMOVE AND GRUB ALL TREES UNDER 6" DBH AND ALL VINES, SHRUBS, AND NON-WOODY VEGETATION. REMOVE AND DISPOSE OF ALL DOWNED LOGS AND LIMBS. FINE GRADE EXISTING TOPSOIL SMOOTH, SEED, MULCH, AND FERTILIZE AREA FOR LAWN.

REMOVE ALL CLAY INFIELD MIX, PLATES, BASES, AND PITCHING RUBBER.

REMOVE EXISTING IRRIGATION LINES AND HEADS ENCOUNTERED DURING CONSTRUCTION. CUT AND CAP ALL ENDS OF LINES

REMOVE SCOREBOARD

REMOVE STORM STRUCTURE

EXISTING SANITARY LINE TO REMAIN, CONTRACTOR TO PROTECT DURING CONSTRUCTION

REMOVE ALL CLAY INFIELD MIX, PLATES, BASES, AND PITCHING RUBBER.

REMOVE STORM STRUCTURE

REMOVE EXISTING 12" CMP STORM PIPE

REMOVE STORM STRUCTURE

REMOVE FENCE AND GATES

REMOVE SANITARY STRUCTURE. ALL EXISTING PIPES TO REMAIN.

LOCATE AND PROTECT EXISTING SANITARY AND ELECTRIC.

REMOVE ASPHALT PAVEMENT

PROTECT EXISTING CURB TO REMAIN

REMOVE CURBING

REMOVE STORM STRUCTURE

ALL EXISTING BOLLARDS, RAMP, ETC. AT BUILDING TO REMAIN. PROTECT DURING ASPHALT REPLACEMENT.

SAWCUT AND REMOVE CONCRETE SIDEWALK TO CLOSEST JOINT

INLET PROTECTION (3 / C-710)

REMOVE UTILITY POLE AND GUY WIRE

SILT FENCE (2 / C-710)

REMOVE UTILITY POLE

EXISTING SANITARY LINE TO REMAIN, CONTRACTOR TO PROTECT DURING CONSTRUCTION

REMOVE BACKSTOP

REMOVE UTILITY POLE

REMOVE STEPS

STABILIZED CONSTRUCTION ENTRANCE (4 / C-710)

EXISTING UTILITY POLE TO REMAIN. END OVERHEAD WIRE REMOVALS HERE. CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND SCHEDULING ASSOCIATED WITH VERIZON AND ORANGE AND ROCKLAND ELECTRIC IN ORDER TO REMOVE UTILITY POLES AND OVERHEAD WIRES BEYOND THIS POINT.

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- REMOVE ITEM
- REMOVE CONCRETE/ASPHALT PAVEMENT
- REMOVE INFIELD SURFACE
- REMOVE GRAVEL PAVEMENT
- SILT FENCE
- INLET PROTECTION

30 0 10 20 30
Scale: 1" = 30'

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by KMK
Checked by JFK
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Tri-State Area

Landscape Architect & Civil Engineer: --

Structural Engineer: --

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-00-7-010-006
PRESS BOX – SOFTBALL SBL# 50-02-01-00-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-00-7-001-001
106 Hammond Rd.
Suffern, NY 10901

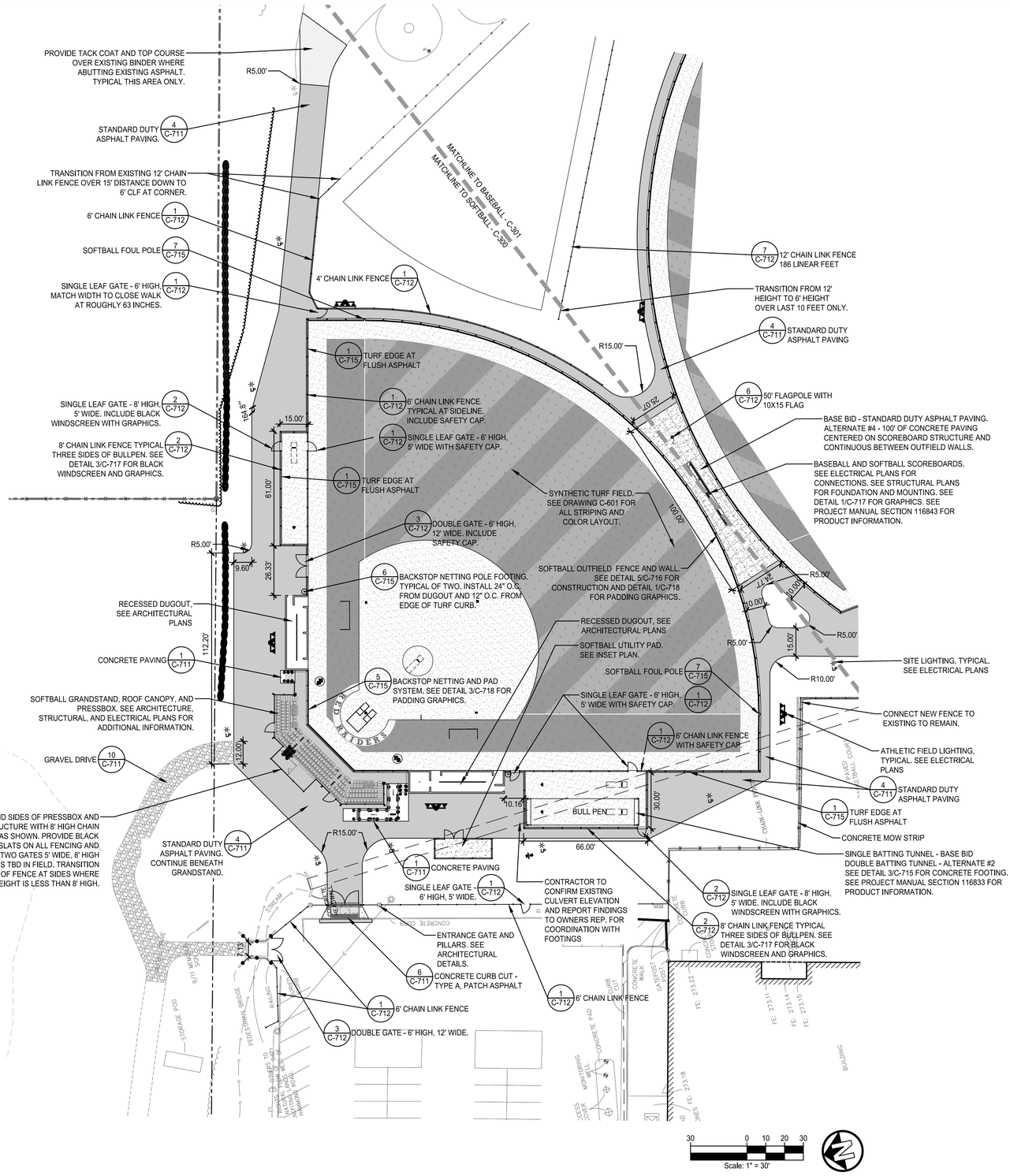
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

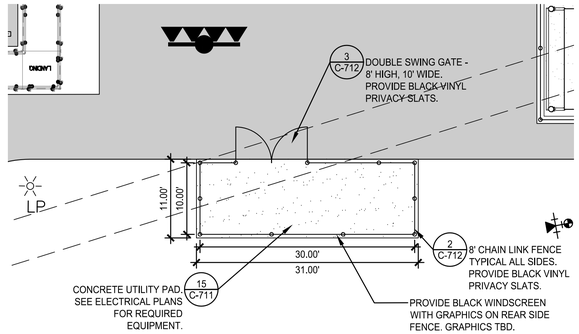
Drawing Title
DEMO PLAN - FIELD HOCKEY FIELD

Drawing No.
C-202
of X



LAYOUT NOTES:

1. ALL LINE AND GRADE INFORMATION SHALL BE LAID OUT BY A NEW YORK STATE REGISTERED SURVEYOR ENGAGED BY THE CONTRACTOR.
2. ALL NEW WORK SHALL BE STAKED OUT PRIOR TO CONSTRUCTION. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES. FIELD ADJUSTMENTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE NOTED.
4. DIMENSIONS TO CURBS ARE FROM FACE OR BOTTOM OF CURB TO FACE OR BOTTOM OF CURB.
5. FIELD ADJUSTMENTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE AND IF NECESSARY APPROPRIATE MUNICIPAL OFFICIALS.
6. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
7. ALL PROPOSED WALKS, PAVEMENTS, LIGHTS AND SITE IMPROVEMENTS SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
9. ALL EXISTING UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE VERTICAL & HORIZONTAL POSITION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.



SOFTBALL UTILITY PAD INSET

10 5 0 2 4 6 8 10
Scale: 1" = 10'

LEGEND

- PROPERTY LINE
- GUARD RAIL
- EXISTING FENCE
- CHAINLINK FENCE
- EXISTING VEGETATION
- PROPOSED VEGETATION
- EXISTING SITE LIGHTING
- PROPOSED SITE LIGHTING
- CONCRETE PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- SYNTHETIC TURF

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawn by | Checked by | Project No. 43045 | Scale AS NOTED | Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Troy • Saratoga Springs

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-004-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

106 Hammond Rd.
Pomona, NY 10970

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

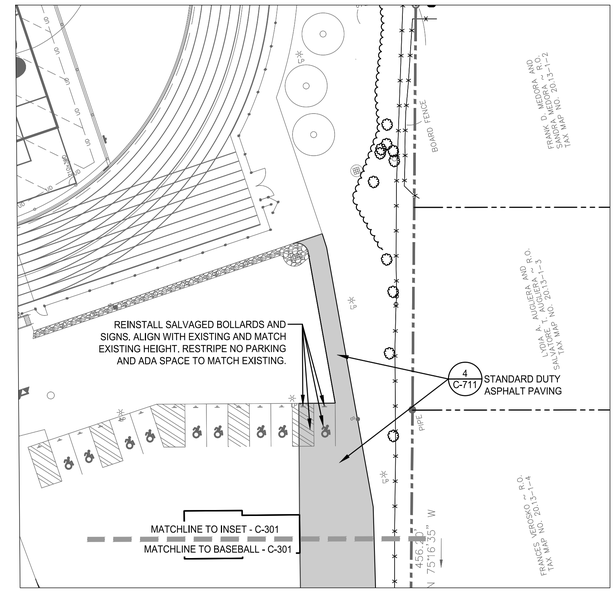
Drawing Title: **LAYOUT PLAN - SOFTBALL FIELD**

Drawing No. **C-300** of X

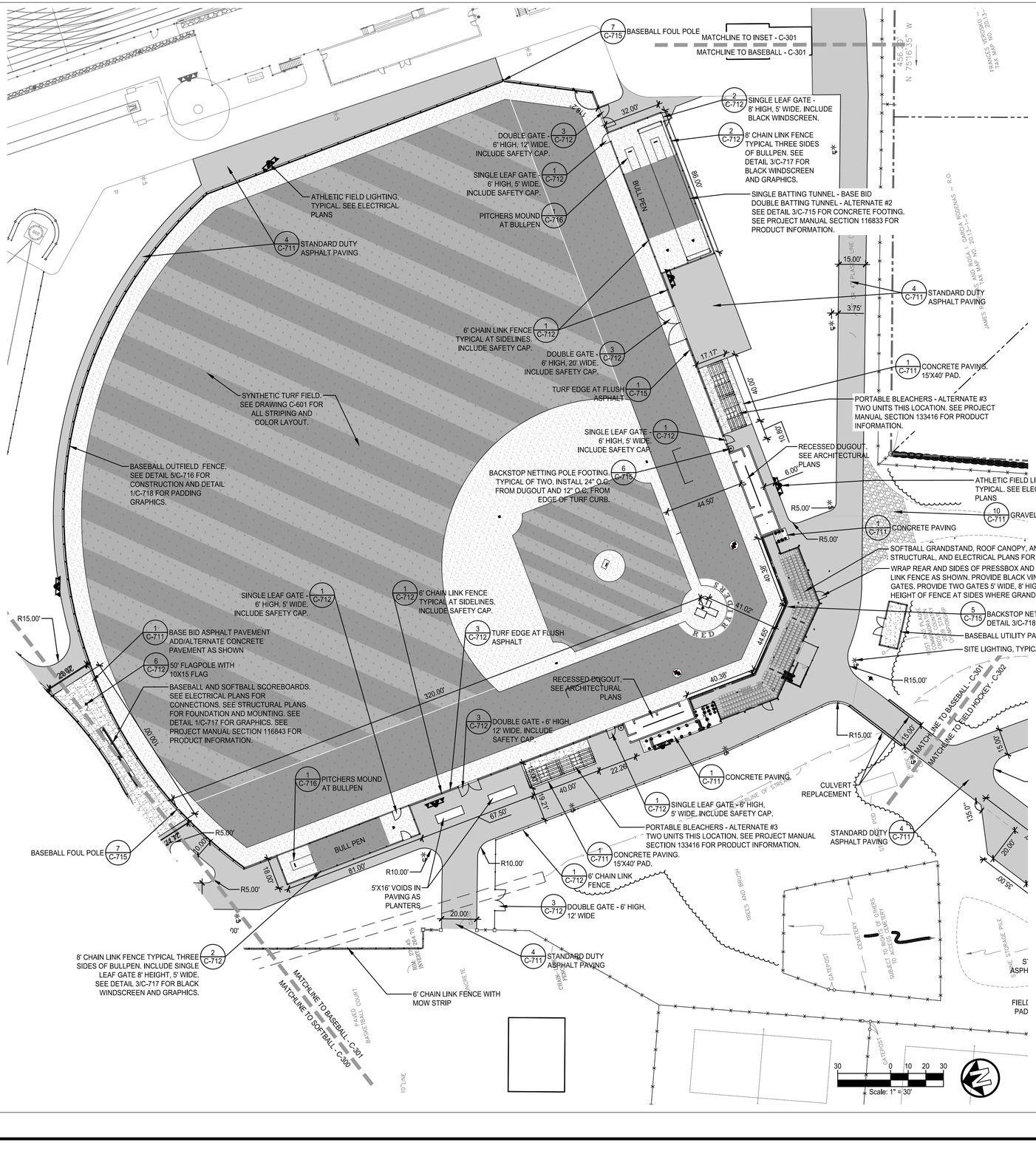
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

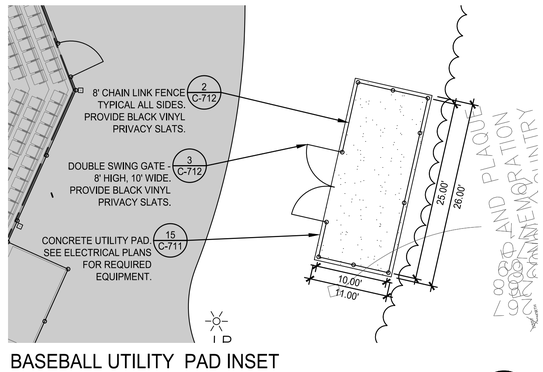
LAYOUT NOTES:

REFER TO C-300 FOR LAYOUT NOTES.



LAYOUT INSET





BASEBALL UTILITY PAD INSET

LEGEND

- PROPERTY LINE
- GUARD RAIL
- EXISTING FENCE
- CHAINLINK FENCE
- EXISTING VEGETATION
- PROPOSED VEGETATION
- EXISTING SITE LIGHTING
- PROPOSED SITE LIGHTING
- CONCRETE PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- SYNTHETIC TURF

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Capital Region

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-4-010-000
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-001-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

190 Hammond Rd.
Pomona, NY 10970

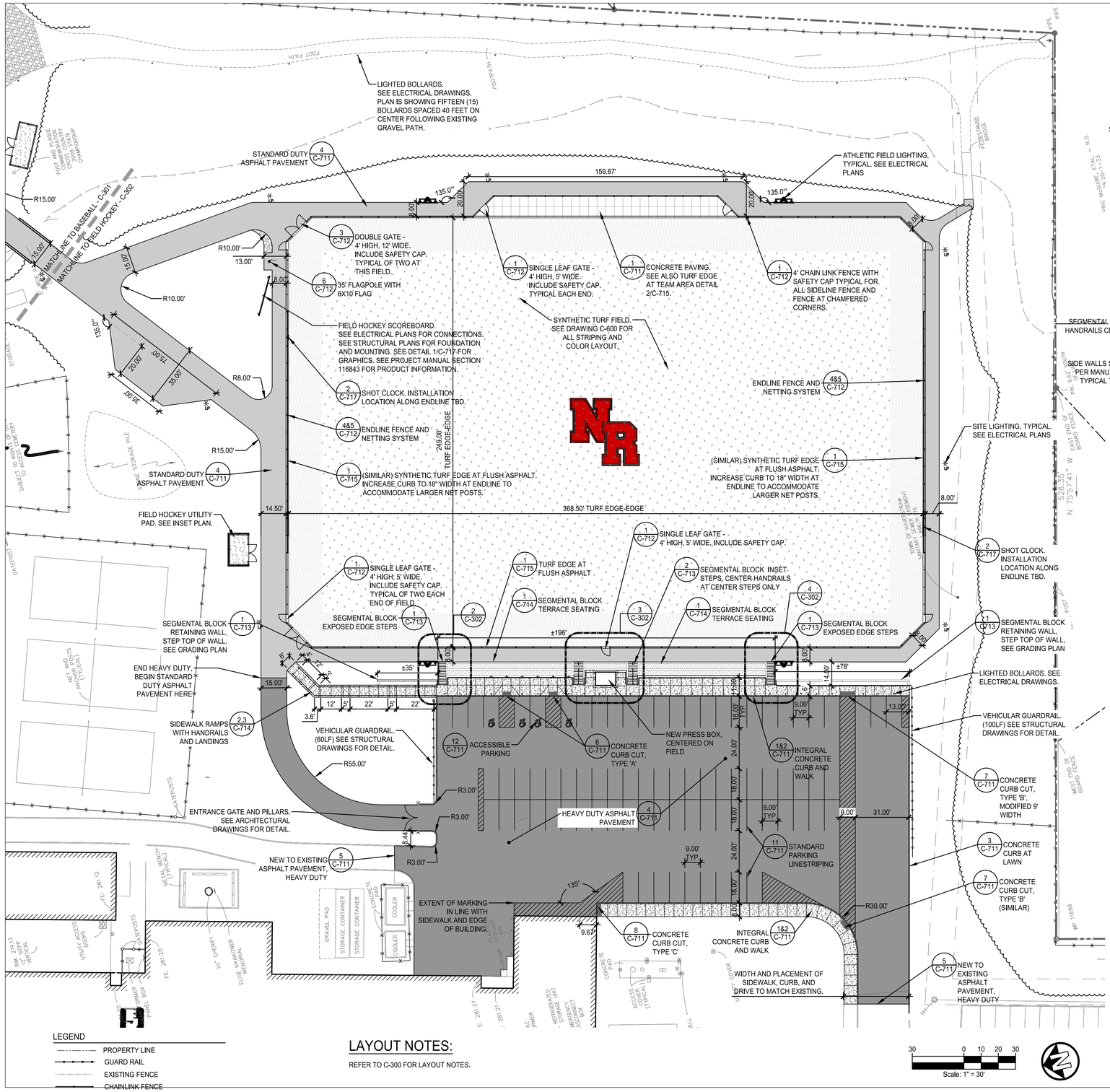
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

HSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

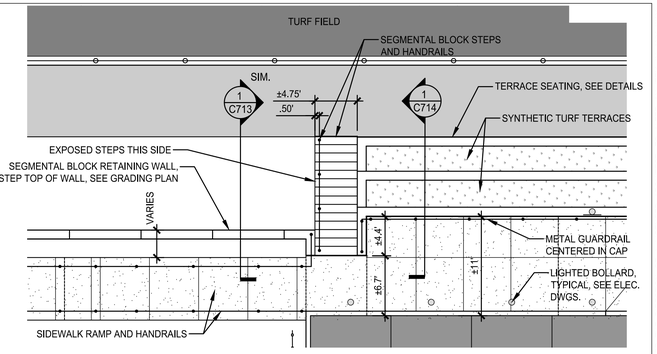
Drawing Title
LAYOUT PLAN - BASEBALL FIELD

Drawing No.
C-301 of X



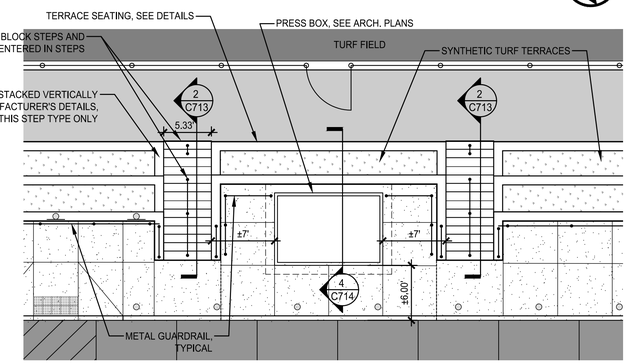
LAYOUT NOTES:

REFER TO C-300 FOR LAYOUT NOTES.



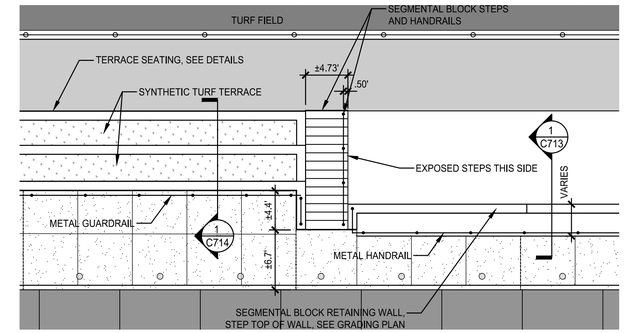
2 EXPOSED STEP PLAN (NORTH)

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



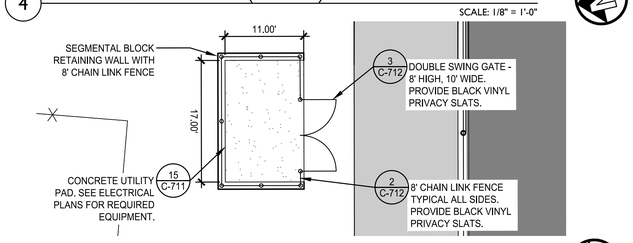
3 INSET STEP PLAN

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



4 EXPOSED STEP PLAN (SOUTH)

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



FIELD HOCKEY UTILITY PAD INSET

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN any WAY.

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving the Capital Region

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-006
PRESS BOX – SUPERVISOR SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEMENT SBL# 50-02-01-06-7-001-001

106 Hammond Rd.
Pomona, NY 10970

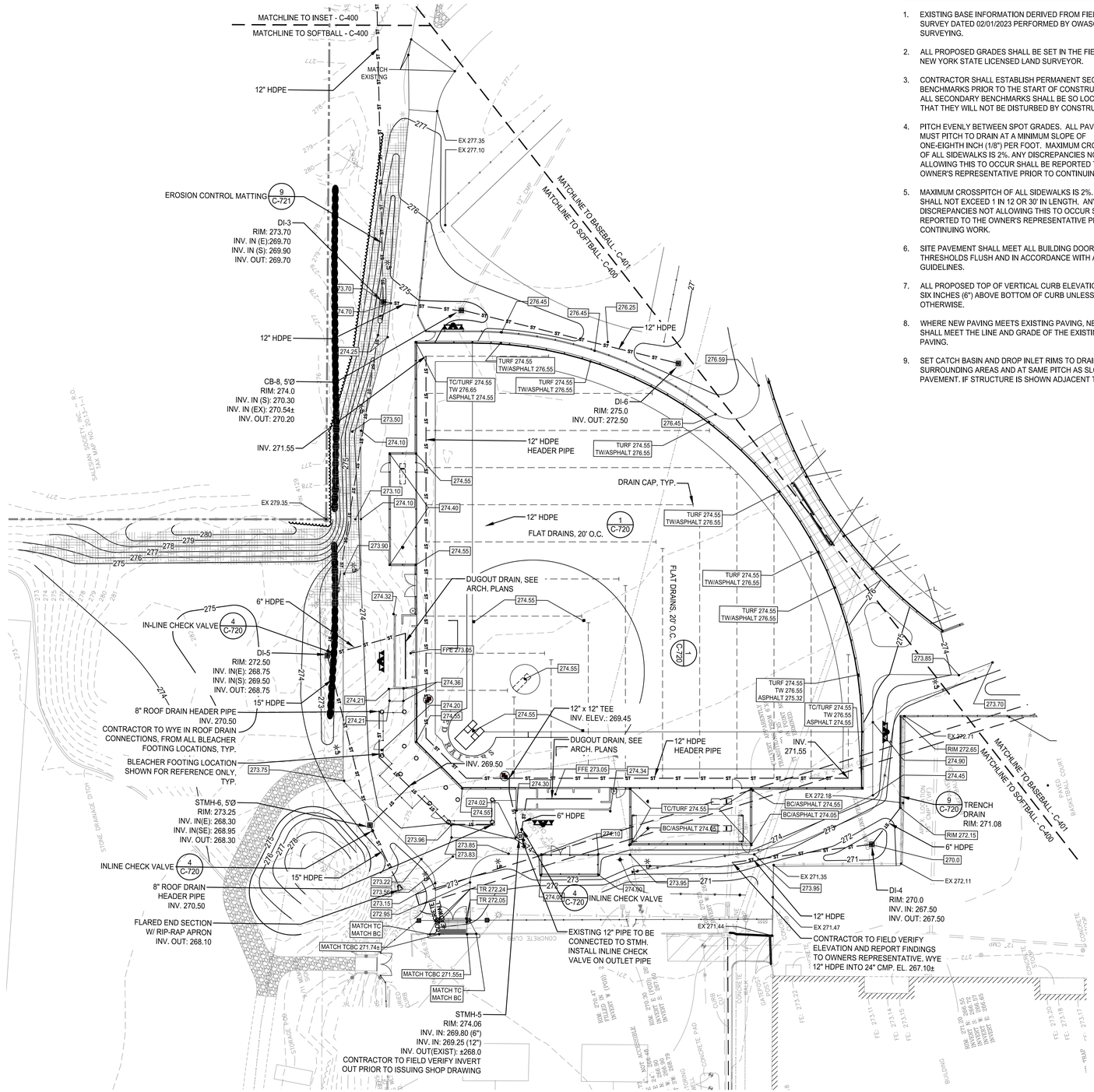
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **LAYOUT PLAN - FIELD HOCKEY FIELD**

Drawing No. **C-302** of X



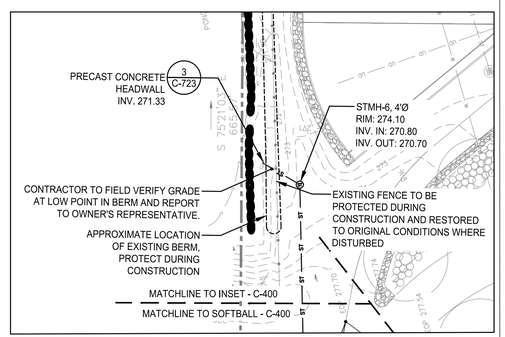
GRADING NOTES:

1. EXISTING BASE INFORMATION DERIVED FROM FIELD SURVEY DATED 02/01/2023 PERFORMED BY OWASCO LAND SURVEYING.
2. ALL PROPOSED GRADES SHALL BE SET IN THE FIELD BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. CONTRACTOR SHALL ESTABLISH PERMANENT SECONDARY BENCHMARKS PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE SO LOCATED THAT THEY WILL NOT BE DISTURBED BY CONSTRUCTION.
4. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. MAXIMUM CROSSPITCH OF ALL SIDEWALKS IS 2%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
5. MAXIMUM CROSSPITCH OF ALL SIDEWALKS IS 2%. RAMPS SHALL NOT EXCEED 1 IN 12 OR 30' IN LENGTH. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
6. SITE PAVEMENT SHALL MEET ALL BUILDING DOOR THRESHOLDS FLUSH AND IN ACCORDANCE WITH ADA GUIDELINES.
7. ALL PROPOSED TOP OF VERTICAL CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB UNLESS SHOWN OTHERWISE.
8. WHERE NEW PAVING MEETS EXISTING PAVING, NEW PAVING SHALL MEET THE LINE AND GRADE OF THE EXISTING PAVING.
9. SET CATCH BASIN AND DROP INLET RIMS TO DRAIN SURROUNDING AREAS AND AT SAME PITCH AS SLOPING PAVEMENT. IF STRUCTURE IS SHOWN ADJACENT TO CURB, SET GRATE TIGHT TO FACE OF CURB.
10. EXCAVATION REQUIRED WITHIN 3 FEET OF EXISTING UTILITY LINE SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN LIMIT OF GRADING BEFORE COMMENCING EXCAVATION AND GRADING OPERATIONS. NO TOPSOIL SHALL BE REMOVED FROM SITE WITHOUT PRIOR AUTHORIZATION FROM OWNER. TOPSOIL SHALL BE STOCKPILED FOR RE-USE ON SITE OR LEGALLY DISPOSED OF OFFSITE.
12. ALL AREAS REQUIRING FILL SHALL BE BROUGHT TO REQUIRED GRADE IN 6" MAXIMUM COMPACTED LIFTS. GENERAL FILL SHALL BE FREE OF DELETERIOUS MATERIAL, CONTAIN NO GRAVEL LARGER THAN 2", AND SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT PLANS AND DETAILS.
13. GRADE AREAS ADJACENT TO BUILDING LINES TO DRAIN AWAY FROM STRUCTURE AND PREVENT PONDING. FINISH SURFACES SHALL BE FREE FROM IRREGULAR SURFACE CHANGES.
14. EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN KIND.
15. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION AND OSHA REGULATIONS. MAINTAIN SIDE SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
16. THE GENERAL CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
17. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.
18. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES. DURING EARTHWORK OPERATIONS, DRAINAGE OF THE SITE AND ADJACENT AREAS SHALL BE MAINTAINED CONTINUOUSLY TO PREVENT EROSION OR DAMAGE RESULTING FROM CONCENTRATED RUN-OFF. WHEN IT IS NECESSARY TO INTERRUPT THE EXISTING DRAINAGE PATTERNS AND/OR UTILITIES, PROVIDE TEMPORARY FACILITIES UNTIL WORK IS PERMANENTLY STABILIZED AND APPROVED BY OWNER'S REPRESENTATIVE.
19. THE GENERAL CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
20. IN ALL LAWN AREAS, ROUGH GRADE SHALL BE BROUGHT TO WITHIN 4" OF FINISHED GRADE UNLESS OTHERWISE NOTED.
21. THE SIDES OF ANY NEW CUT AND/OR FILL SLOPES SHALL BE CONSTRUCTED W/ SLOPES NO STEEPER THAN 1 FOOT (VERTICAL) ON 2 FOOT (HORIZONTAL).

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STORMWATER PIPE
- EXISTING STORM STRUCTURE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- UNDERDRAIN PIPE
- STORMWATER PIPE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN/DROP INLET
- EROSION CONTROL MATTING
- DI DROP INLET
- CB CATCH BASIN
- DW DRY WELL
- STMH STORM MANHOLE

30 0 10 20 30
Scale: 1" = 30'



GRADING & DRAINAGE INSET

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering P.C.
Serving Upstate New York

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-000
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

106 Hammond Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

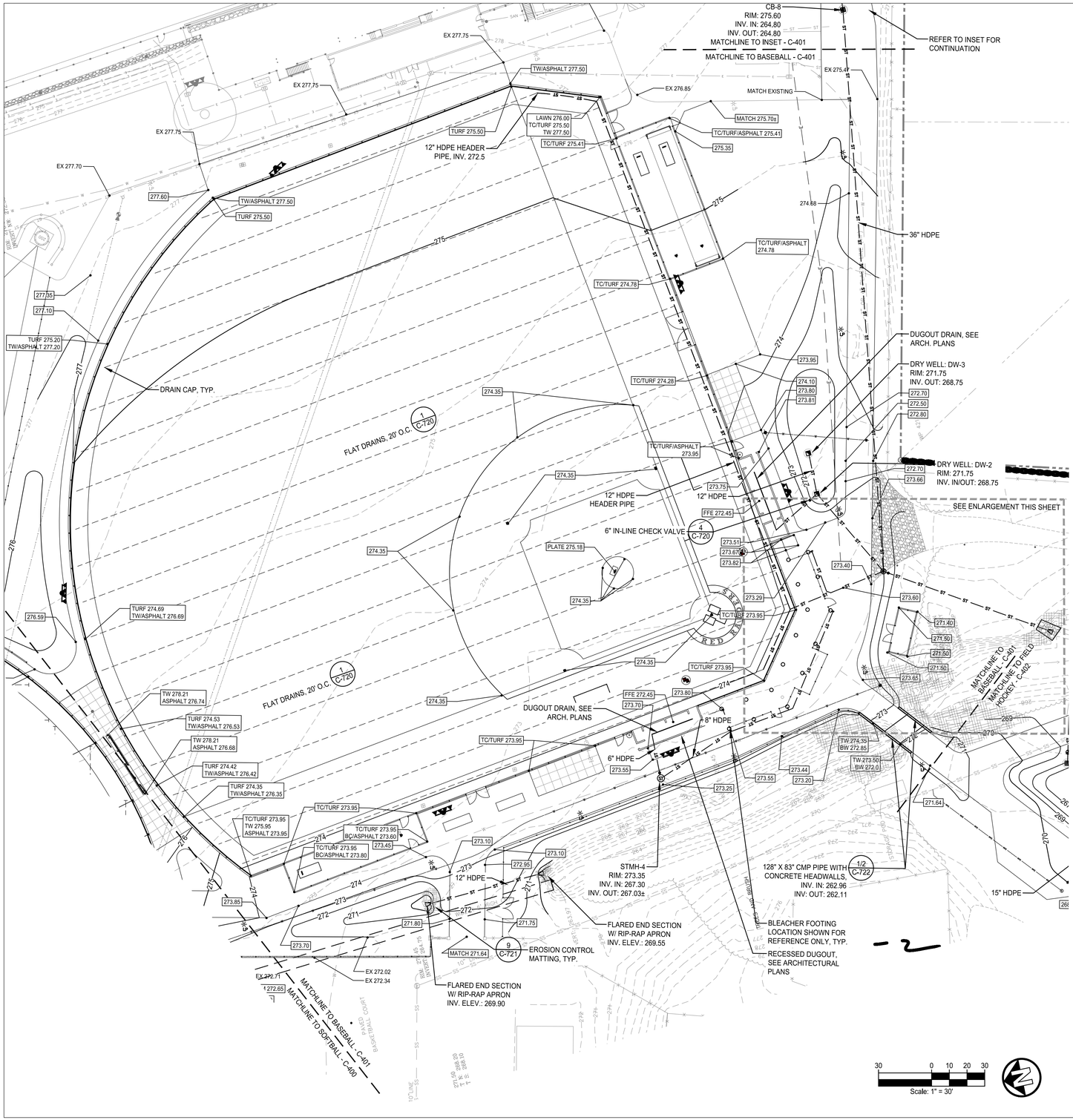
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
GRADING & DRAINAGE PLAN - SOFTBALL FIELD

Drawing No.
C-400
of X

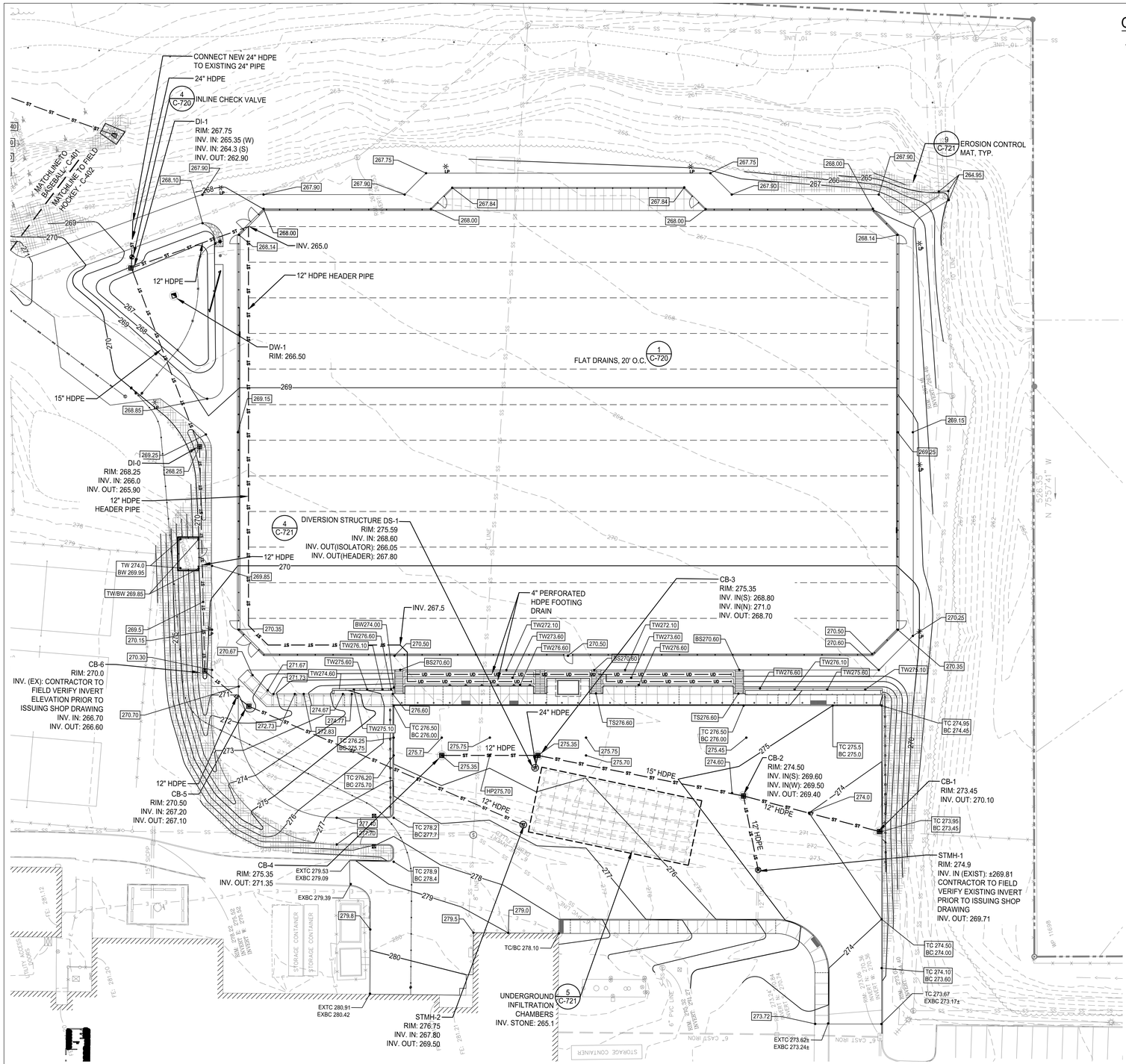
GRADING NOTES:

1. REFER TO SHEET C-400 FOR GRADING NOTES.


CB-8
RIM: 275.60
INV. IN: 264.80
INV. OUT: 264.80
MATCHLINE TO INSET - C-401
MATCHLINE TO BASEBALL - C-401
REFER TO INSET FOR CONTINUATION
EX 277.75
EX 277.75
EX 277.75
EX 277.70
277.60
TW/ASPHALT 277.50
TURF 275.50
TW/ASPHALT 277.50
TURF 275.50
12" HDPE HEADER PIPE, INV. 272.5
LAWN 276.00
TC/TURF 275.50
TW 277.50
TC/TURF 275.41
EX 276.85
MATCH EXISTING
EX 275.41
MATCH 275.70±
TC/TURF/ASPHALT 275.41
275.35
274.88
36" HDPE
TC/TURF/ASPHALT 274.78
TC/TURF 274.78
277.35
277.10
TURF 275.20
TW/ASPHALT 277.20
DRAIN CAP, TYP.
DUGOUT DRAIN, SEE ARCH. PLANS
DRY WELL: DW-3
RIM: 271.75
INV. OUT: 268.75
273.95
274.10
273.80
273.81
TC/TURF 274.28
272.70
272.50
272.80
274.35
FLAT DRAINS, 20' O.C.
1 C-720
TC/TURF/ASPHALT 273.95
DRY WELL: DW-2
RIM: 271.75
INV. IN/OUT: 268.75
272.70
273.66
274.35
12" HDPE HEADER PIPE
273.75
12" HDPE
SEE ENLARGEMENT THIS SHEET
FFE 272.45
6" IN-LINE CHECK VALVE
4 C-720
273.51
273.67
273.82
PLATE 275.18
274.35
273.40
273.29
TC/TURF 273.95
273.60
271.40
271.50
271.50
271.50
273.65
MATCHLINE TO BASEBALL - C-401
MATCHLINE TO FIELD HOCKEY - C-402
TURF 274.69
TW/ASPHALT 276.69
276.59
TW 278.21
ASPHALT 276.74
TURF 274.53
TW/ASPHALT 276.53
TW 278.21
ASPHALT 276.68
TURF 274.42
TW/ASPHALT 276.42
TURF 274.35
TW/ASPHALT 276.35
FLAT DRAINS, 20' O.C.
1 C-720
274.35
DUGOUT DRAIN, SEE ARCH. PLANS
FFE 272.45
273.70
8" HDPE
6" HDPE
273.55
TC/TURF 273.95
TC/TURF 273.95
BC/ASPHALT 273.60
TC/TURF 273.95
BC/ASPHALT 273.80
273.45
TC/TURF 273.95
TW 275.95
ASPHALT 273.95
273.10
273.10
272.95
12" HDPE
273.85
271.80
271.75
MATCH 271.64
9 C-721
EROSION CONTROL MATTING, TYP.
EX 272.02
EX 272.34
EX 272.71
272.65
FLARED END SECTION W/ RIP-RAP APRON INV. ELEV.: 269.90
MATCHLINE TO BASEBALL - C-401
MATCHLINE TO SOFTBALL - C-400
STMH-4
RIM: 273.35
INV. IN: 267.30
INV. OUT: 267.03±
FLARED END SECTION W/ RIP-RAP APRON INV. ELEV.: 269.55
128" X 83" CMP PIPE WITH CONCRETE HEADWALLS, INV. IN: 262.96 INV. OUT: 262.11
1/2 C-722
BLEACHER FOOTING LOCATION SHOWN FOR REFERENCE ONLY, TYP.
RECESSED DUGOUT, SEE ARCHITECTURAL PLANS
TW 274.35
BW 272.85
TW 273.50
BW 272.0
273.44
273.20
273.25
271.64
15" HDPE
TURF 274.35
TW/ASPHALT 276.35
TC/TURF 273.95
TW 275.95
ASPHALT 273.95
TC/TURF 273.95
BC/ASPHALT 273.60
TC/TURF 273.95
BC/ASPHALT 273.80
273.45
TC/TURF 273.95
TC/TURF 273.95
TC/TURF 273.95

GRADING NOTES:

1. REFER TO SHEET C-400 FOR GRADING NOTES.



30 0 10 20 30
Scale: 1" = 30'

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STORMWATER PIPE
- EXISTING STORM STRUCTURE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- UNDERDRAIN PIPE
- STORMWATER PIPE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DRY WELL
- EROSION CONTROL MAT

DI DROP INLET
CB CATCH BASIN
DW DRY WELL
STMH STORM MANHOLE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering P.C.
Serving Upstate New York

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-016-008
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-001-001
PRESS BOX – TRACK/FIELD SBL# 50-02-01-06-7-001-001
106 Hammond Rd.
Pomona, NY 10970

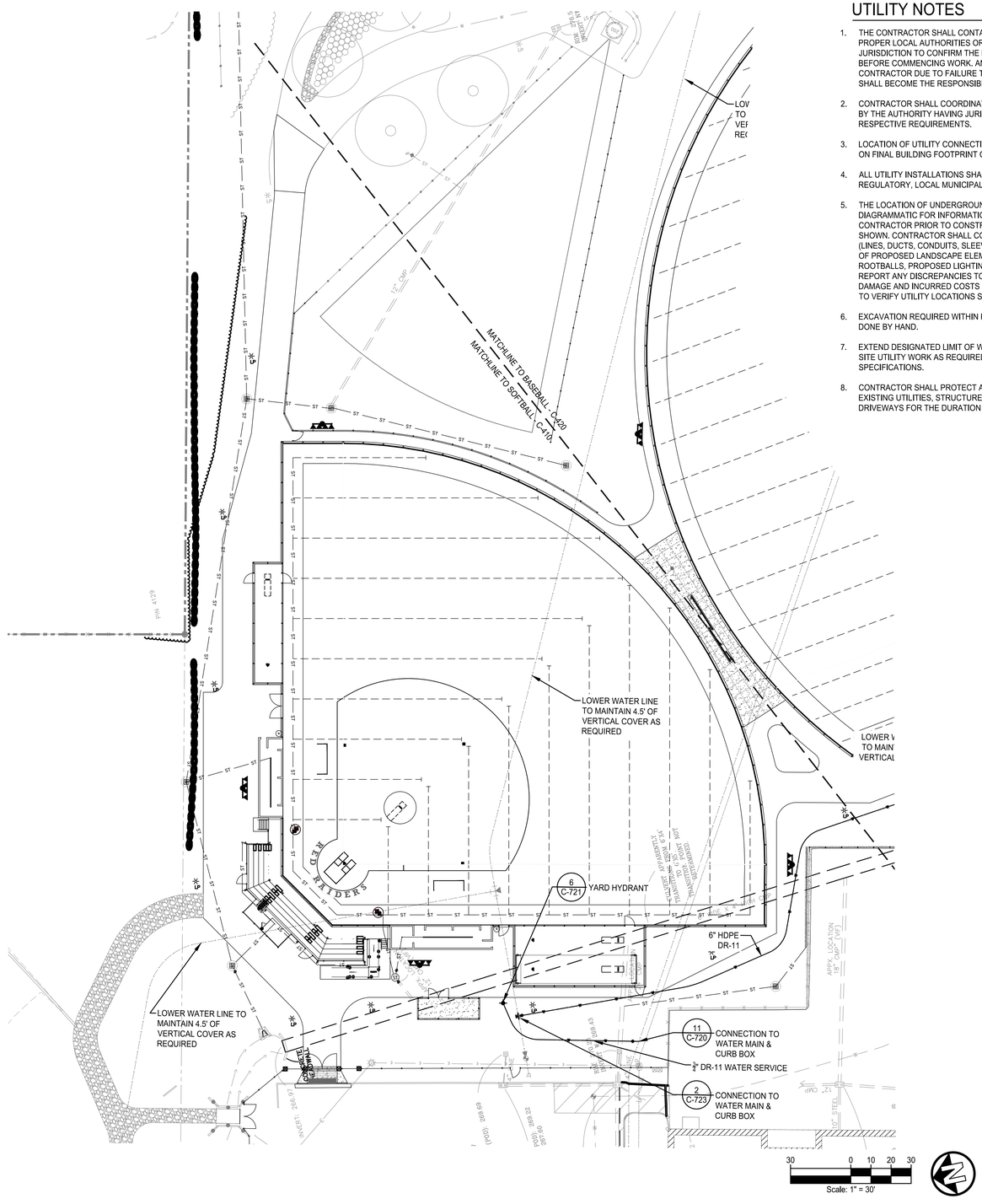
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
GRADING & DRAINAGE PLAN-
FIELD HOCKEY FIELD

Drawing No.
C-402 of X.



UTILITY NOTES

1. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH THEIR RESPECTIVE REQUIREMENTS.
3. LOCATION OF UTILITY CONNECTIONS AT BUILDING TO BE VERIFIED BASED ON FINAL BUILDING FOOTPRINT CONFIGURATION.
4. ALL UTILITY INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL REGULATORY, LOCAL MUNICIPAL AND BUILDING CODE REQUIREMENTS.
5. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC FOR INFORMATION ONLY, AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.) AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO VERIFY UTILITY LOCATIONS SHALL BE BORNE BY THE CONTRACTOR.
6. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND.
7. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH SITE UTILITY WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
8. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT ROADWAYS AND DRIVEWAYS FOR THE DURATION OF CONSTRUCTION.

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATER LINE
- EXISTING SANITARY LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Troy • Saratoga Springs

Structural Engineer: - - - - - -

Drawn by | Checked by | Project No. 43045 | Scale AS NOTED | Date 10/30/2023

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-08-0-010-000
PRESS BOX - SOFTBALL SBL#: 50-02-01-08-7-000-001
PRESS BOX - BASEBALL SBL#: 50-02-01-08-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

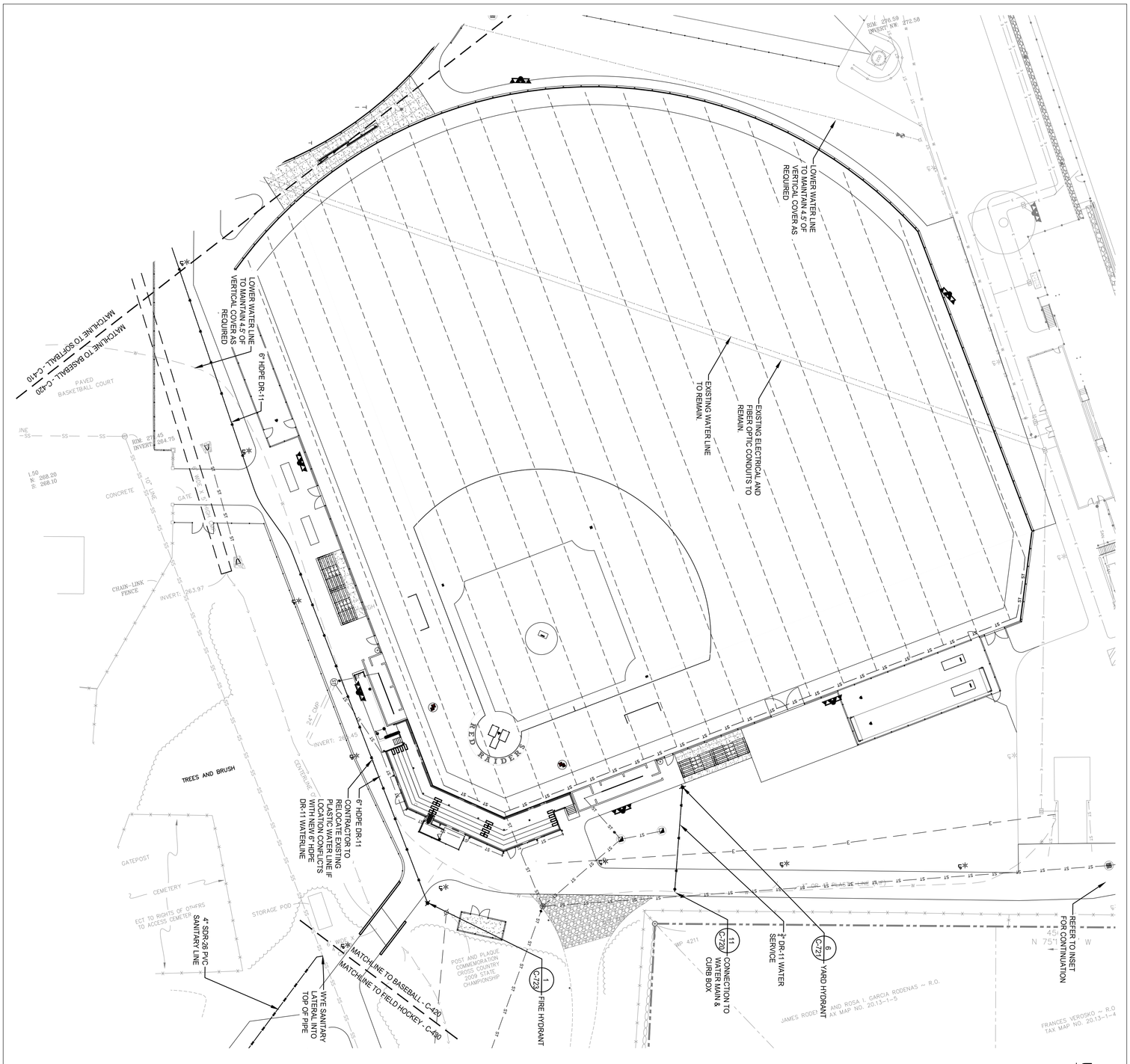
700 Blauvelt Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **UTILITY PLAN - SOFTBALL FIELD**

Drawing No. **C-410** of X

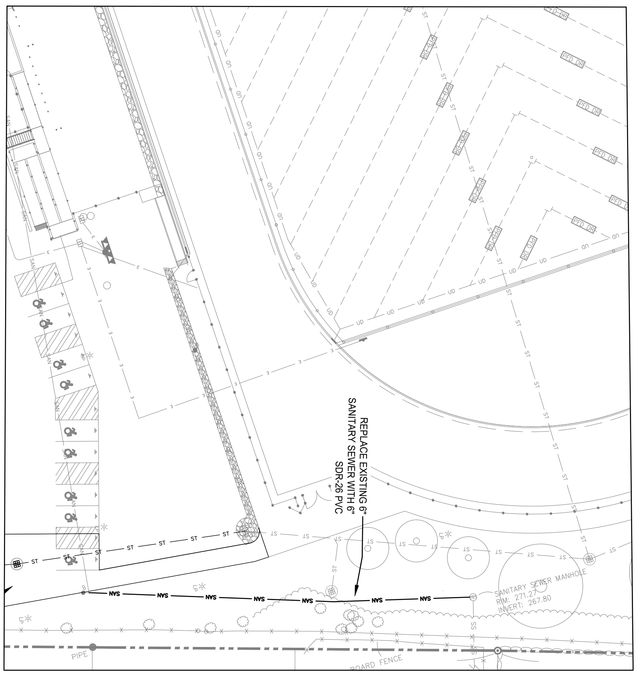


LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATER LINE
- EXISTING SANITARY LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE

Scale: 1" = 30'

SANITARY SEWER INSET



UTILITY NOTES

REFER TO SHEET C-410 FOR UTILITY NOTES.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawing Title

UTILITY PLAN -
BASEBALL FIELD

Drawing No.

C-420
of X

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL: SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SED# 50-02-01-06-7-001-001

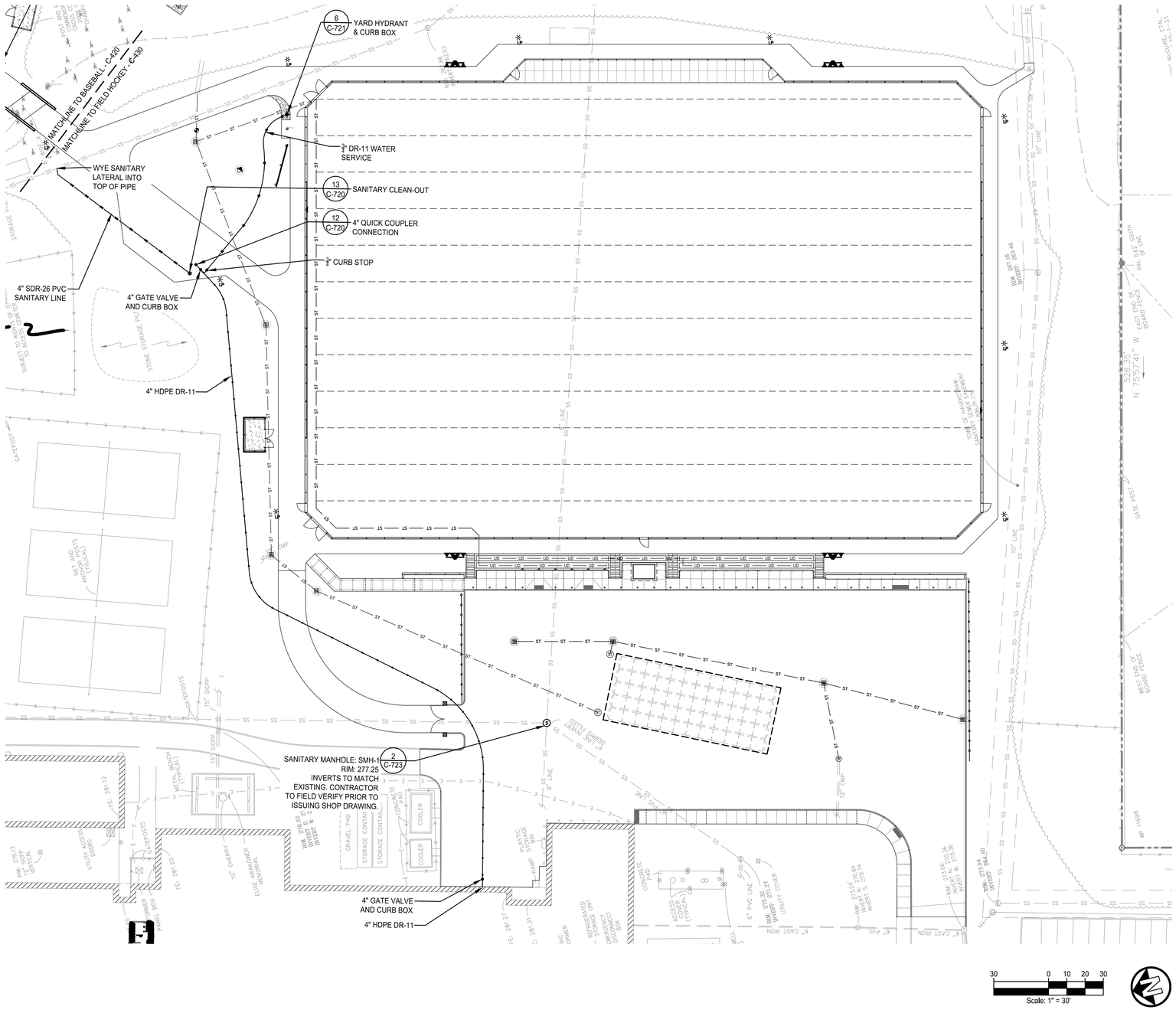
106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

Landscape Architect & Civil Engineer:	The LA GROUP, Landscape Architecture & Engineering P.C., Pearl, Nyack, Rockland County, New York
Structural Engineer:	— — —

Drawn by	
Checked by	
Project No.	43045
Scale	AS NOTED
Date	10/30/2023

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS



UTILITY NOTES

REFER TO SHEET C-410 FOR UTILITY NOTES.

LEGEND

- PROPERTY LINE
- EXISTING VEGETATION
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND SEWER
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATER LINE
- EXISTING SANITARY LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE

30 0 10 20 30
Scale: 1" = 30'

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving Upstate New York
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-036
PRESS BOX – SOFTBALL SED# 50-02-01-06-7-004-001
PRESS BOX – BASEBALL SED# 50-02-01-06-7-001-001

106 Hammond Rd.
Pomona, NY 10970

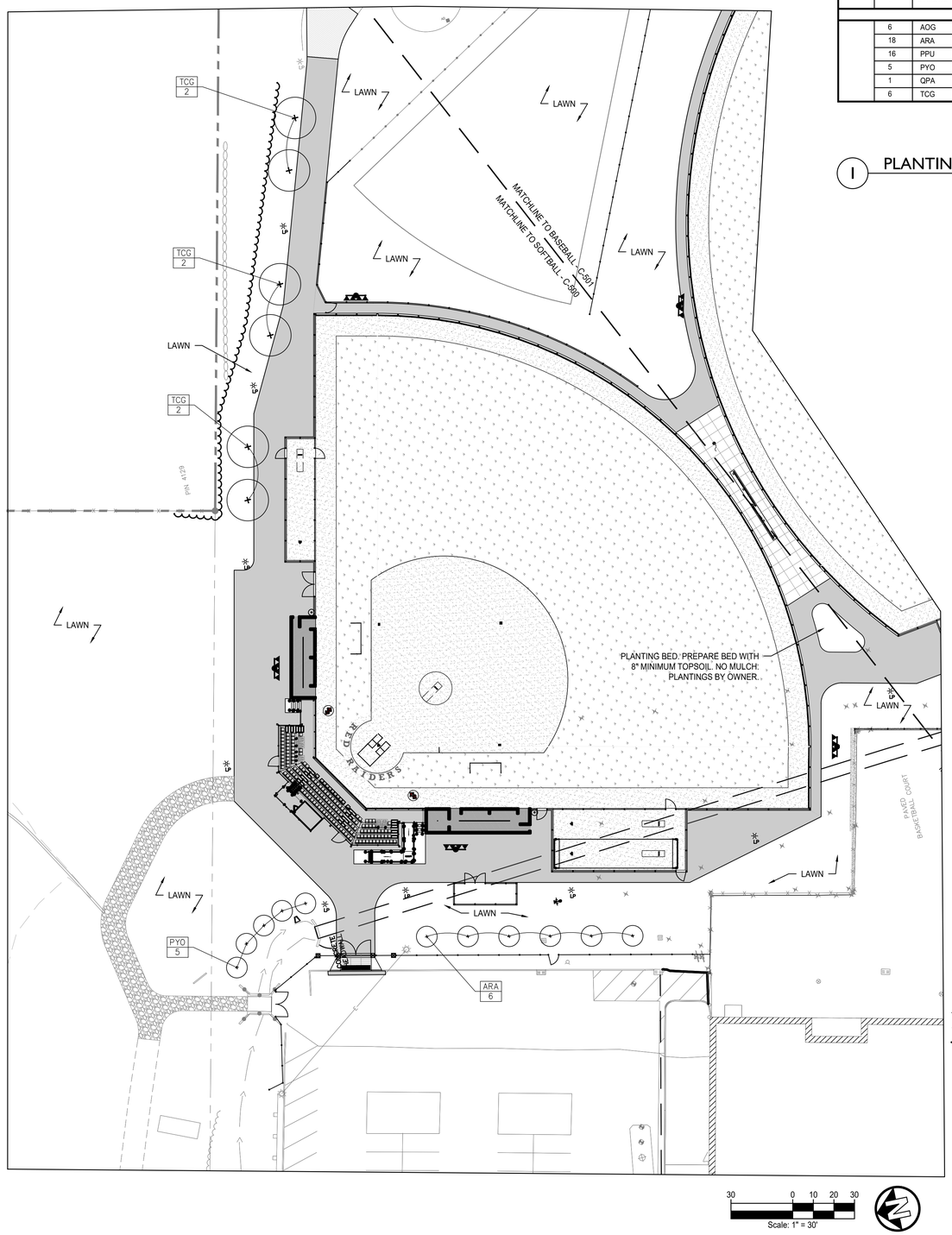
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
UTILITY PLAN - FIELD HOCKEY FIELD

Drawing No.
C-430
of X

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.



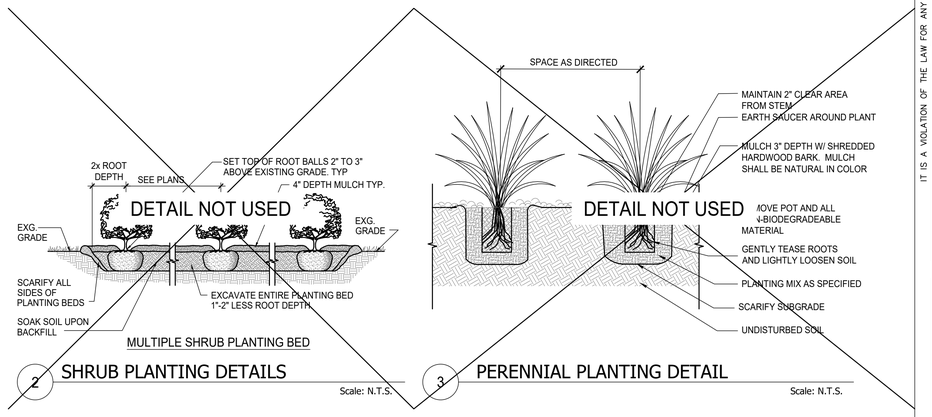
	#	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
	6	AOG	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3"-3.5" CAL.	B&B	SEE DETAIL 4/C-500.
	18	ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG COLUMNAR RED MAPLE	3.5"-4" CAL.	B&B	SEE DETAIL 4/C-500.
	16	PPU	PICEA PUNGENS	COLORADO BLUE SPRUCE	8-10' HEIGHT	B&B	SEE DETAIL 4/C-500.
	5	PYO	PRUNUS YEDOENSIS	YOSHINO CHERRY	2"-2.5" CAL.	B&B	SEE DETAIL 4/C-500.
	1	QPA	QUERCUS PALUSTRIS	PIN OAK	3"-3.5" CAL.	B&B	SEE DETAIL 4/C-500.
	6	TCG	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	3"-3.5" CAL.	B&B	SEE DETAIL 4/C-500.

1 PLANTING SCHEDULE (THIS SCHEDULE APPLIES TO C-500, C-501, AND C-502)

SCALE: N.T.S.

LEGEND

- PROPERTY LINE
- CONSTRUCTION LIMIT LINE
- GUARD RAIL
- EXISTING FENCE
- CHAINLINK FENCE
- EXISTING VEGETATION
- PROPOSED VEGETATION
- EXISTING SITE LIGHTING
- PROPOSED SITE LIGHTING

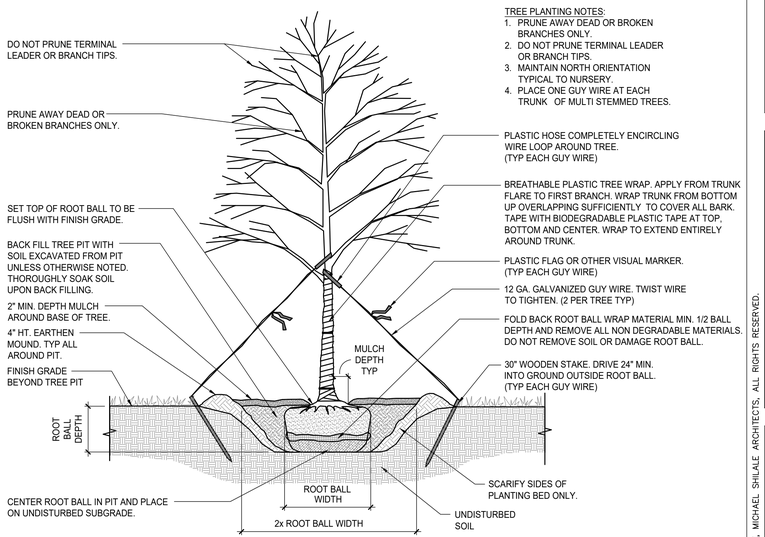


2 SHRUB PLANTING DETAILS

Scale: N.T.S.

3 PERENNIAL PLANTING DETAIL

Scale: N.T.S.



TREE PLANTING NOTES:
1. PRUNE AWAY DEAD OR BROKEN BRANCHES ONLY.
2. DO NOT PRUNE TERMINAL LEADER OR BRANCH TIPS.
3. MAINTAIN NORTH ORIENTATION TYPICAL TO NURSERY.
4. PLACE ONE GUY WIRE AT EACH TRUNK OF MULTI STEMMED TREES.

4 TYPICAL TREE PLANTING DETAIL

Scale: N.T.S.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Tri-State Area

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

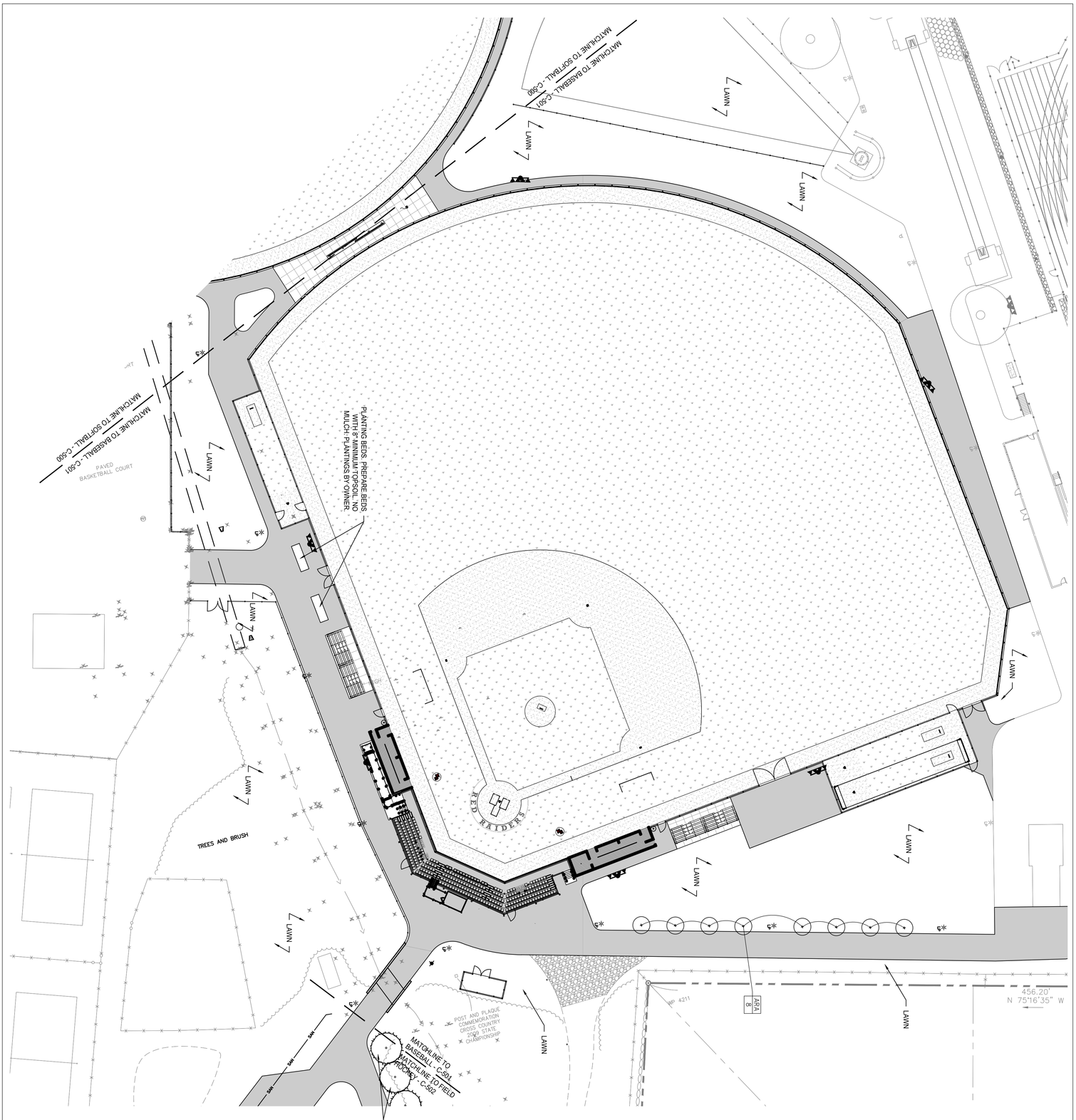
136 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
PLANTING PLAN - SOFTBALL FIELD

Drawing No.
C-500 of X



© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawing Title
PLANTING PLAN - BASEBALL FIELD

Drawing No.
C-501
of X

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SED# 50-02-01-06-7-001-001

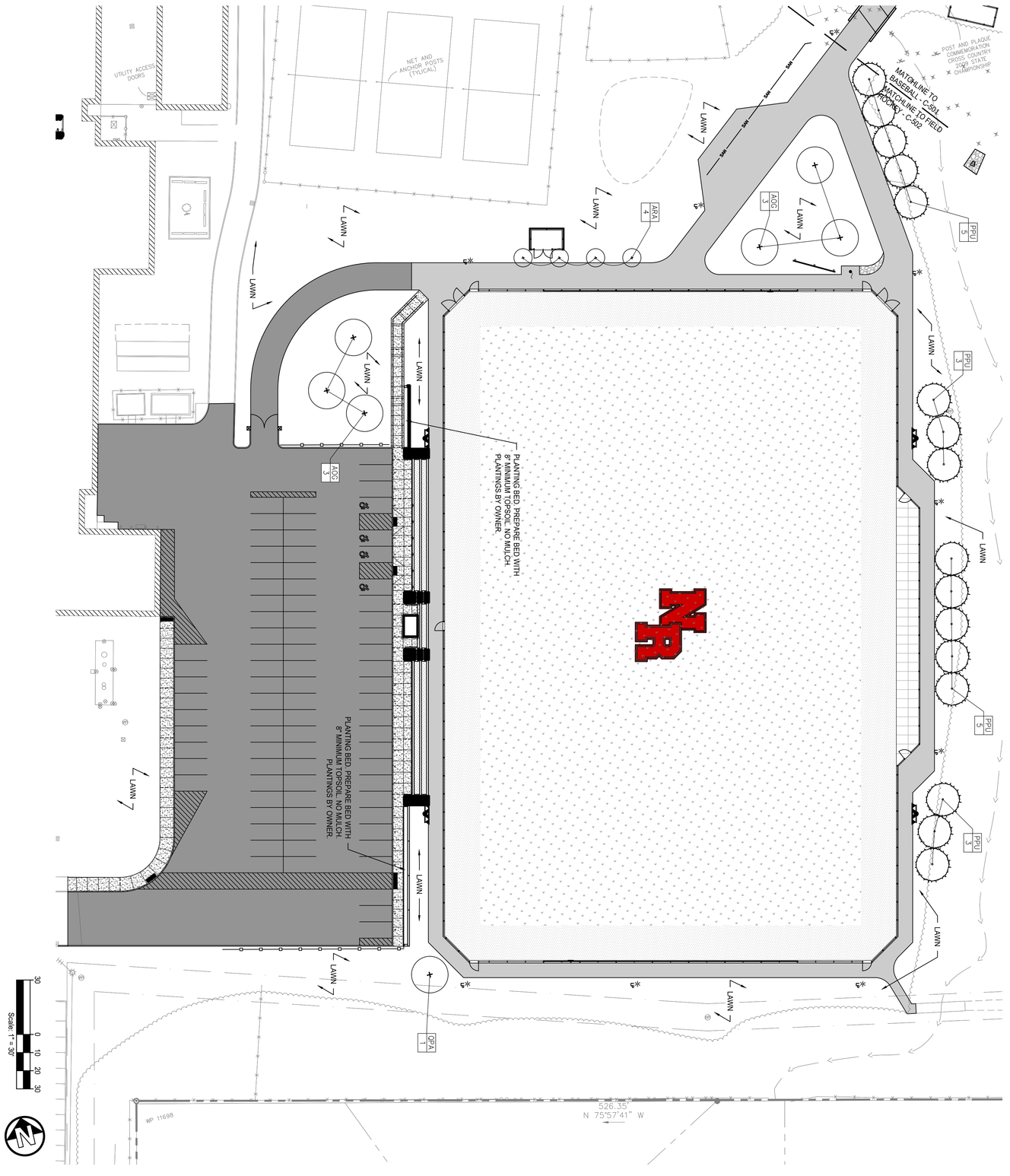
106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

Landscape Architect & Civil Engineer:	The LA GROUP Landscape Architecture & Engineering P.C. Pearl, Nagano, Allen.
Structural Engineer:	— — — —

Drawn by	
Checked by	
Project No.	43045
Scale	AS NOTED
Date	10/30/2023

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS



© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawing Title
PLANTING PLAN -
FIELD HOCKEY FIELD

Drawing No.
C-502
of X

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL: SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SED# 50-02-01-06-7-001-001

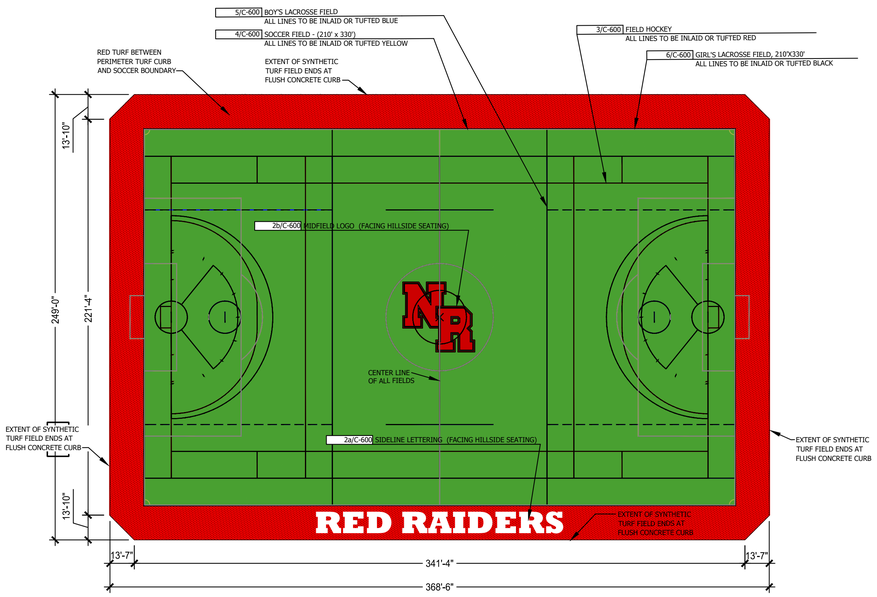
106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

Landscape Architect & Civil Engineer:	The LA GROUP, Landscape Architecture & Engineering P.C., Pearl, Nagano, Milan.
Structural Engineer:	

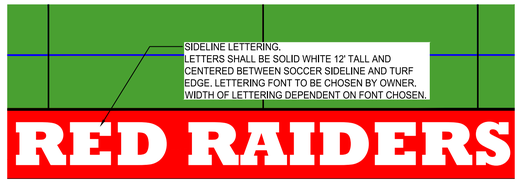
Drawn by	
Checked by	
Project No.	43045
Scale	AS NOTED
Date	10/30/2023

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS



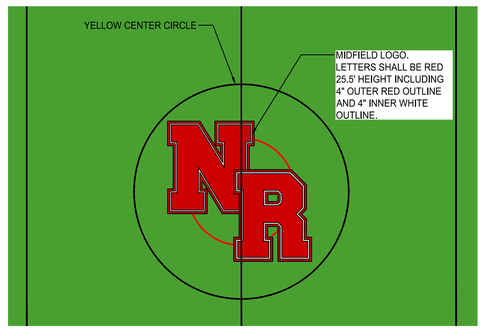
1 MULTIUSE SYNTHETIC TURF LINESTRIPING PLAN

Scale: 1"=40'



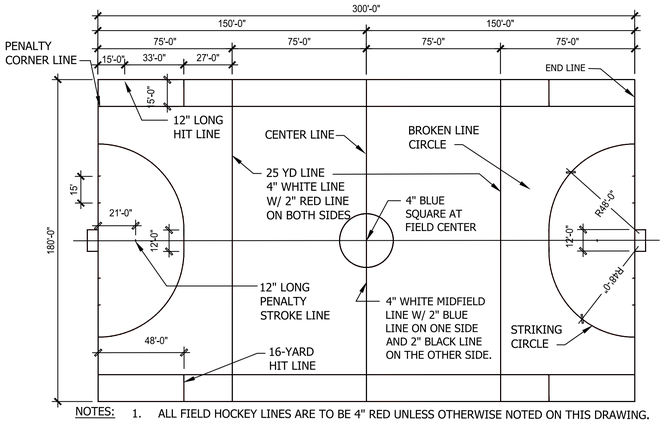
2a SIDELINE LETTERING

Scale: 1"=20'-0"



2b MIDFIELD LOGO

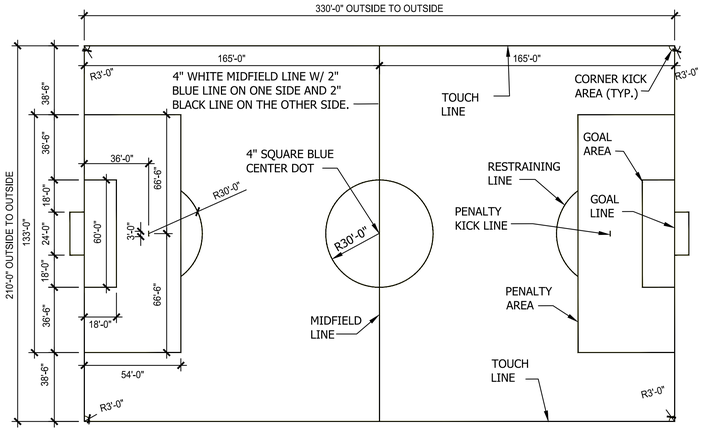
Scale: 1"=20'-0"



NOTES:
1. ALL FIELD HOCKEY LINES ARE TO BE 4" RED UNLESS OTHERWISE NOTED ON THIS DRAWING.
2. ALL DIMENSIONS AND NOTES ARE TYPICAL.

3 FIELD HOCKEY LAYOUT PLAN

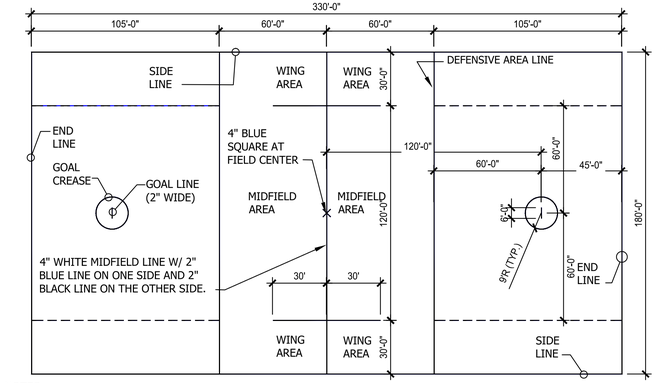
Scale: 1"=40'-0"



NOTES:
1. ALL SOCCER LINES ARE TO BE 4" YELLOW LINES UNLESS OTHERWISE NOTED ON THIS DRAWING.
2. ALL DIMENSIONS AND NOTES ARE TYPICAL.

4 SOCCER FIELD LAYOUT PLAN

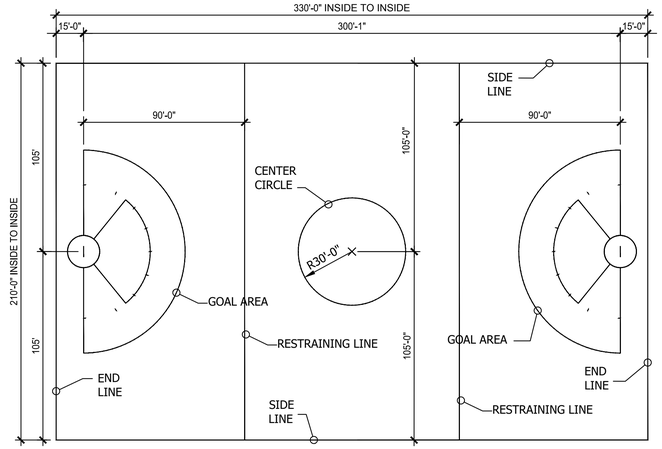
Scale: 1"=40'-0"



NOTES:
1. ALL BOY'S LACROSSE LINES ARE TO BE 4" BLUE INLAID LINES UNLESS OTHERWISE NOTED ON THIS DRAWING.
2. ALL DIMENSIONS AND NOTES ARE TYPICAL.

5 BOY'S LACROSSE LAYOUT PLAN

Scale: 1"=40'-0"



NOTES:
1. ALL GIRL'S LACROSSE LINES ARE TO BE 4" BLACK INLAID LINES UNLESS OTHERWISE NOTED ON THIS DRAWING.
2. ALL DIMENSIONS AND NOTES ARE TYPICAL.

6 GIRL'S LACROSSE LAYOUT PLAN

Scale: 1"=40'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 4.3045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Region Since 1965

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-036
PRESS BOX - SOFTBALL SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SED# 50-02-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

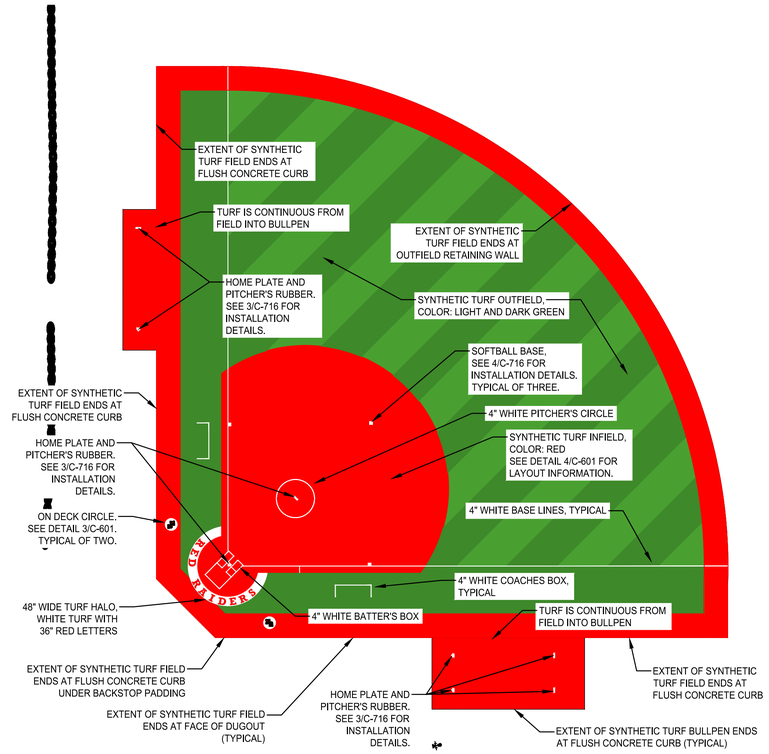
106 Hammond Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

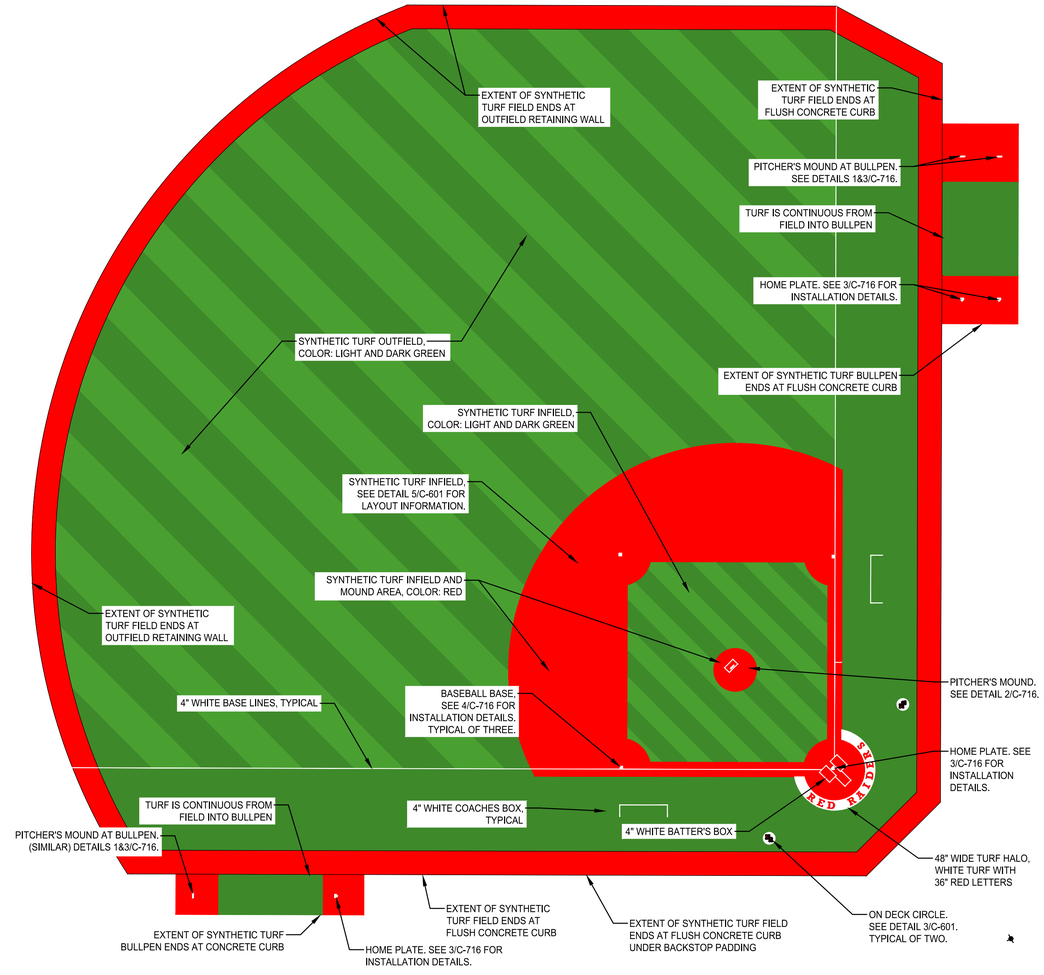
Drawing Title
LINESTRIPING PLANS

Drawing No.
C-600 of X



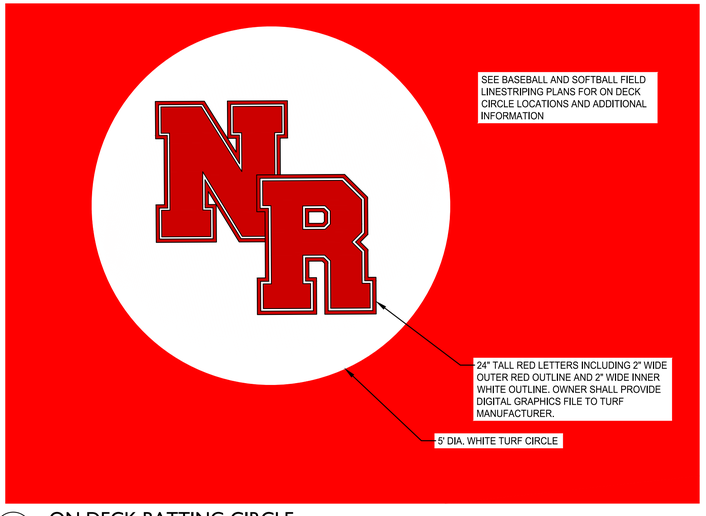
2 SOFTBALL FIELD SYNTHETIC TURF LINESTRIPING PLAN

Scale: 1"=30'



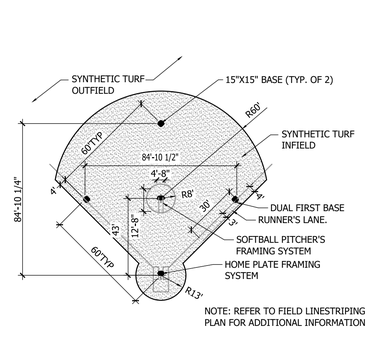
1 BASEBALL FIELD SYNTHETIC TURF LINESTRIPING PLAN

Scale: 1"=30'



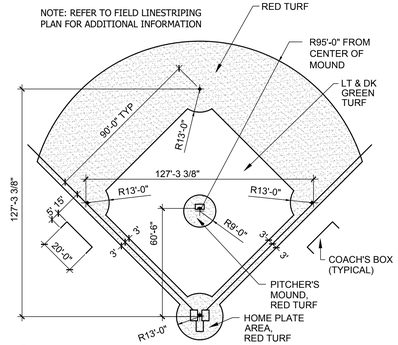
3 ON DECK BATTING CIRCLE

Scale: N.T.S.



4 SOFTBALL INFIELD LAYOUT PLAN

Scale: 1"=40'-0"



5 BASEBALL INFIELD LAYOUT PLAN

Scale: 1"=40'-0"

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving the Tri-State Area

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

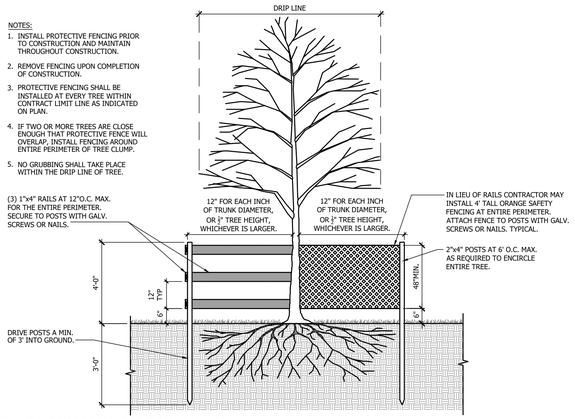
HIGH SCHOOL SBL# 50-02-01-06-1-016-000
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
196 Hamwood Rd.
Haverstraw, NY 10956

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

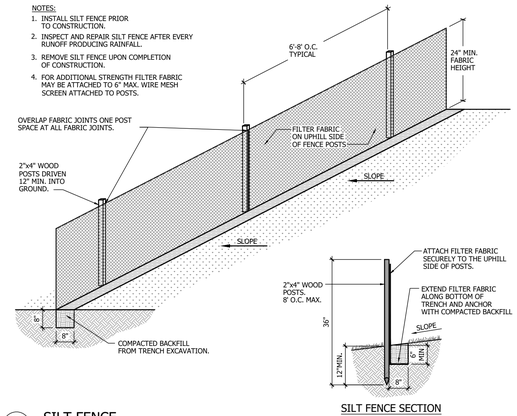
Drawing Title
LINESTRIPING PLANS

Drawing No.
C-601
of X



1 TEMPORARY TREE PROTECTION

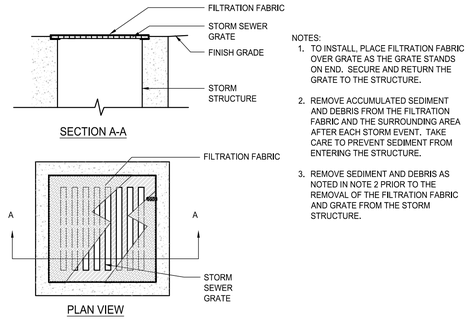
Scale: N.T.S.



2 SILT FENCE

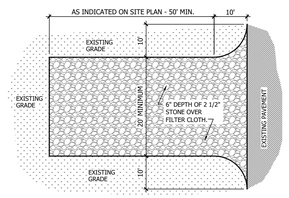
Scale: N.T.S.

SILT FENCE SECTION



3 TEMPORARY INLET PROTECTION

Scale: N.T.S.

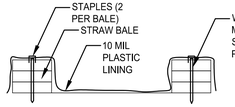


4 STABILIZED CONSTRUCTION ENTRANCE

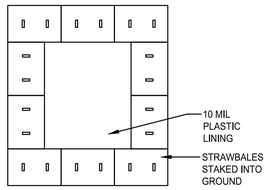
Scale: N.T.S.

NOTE:

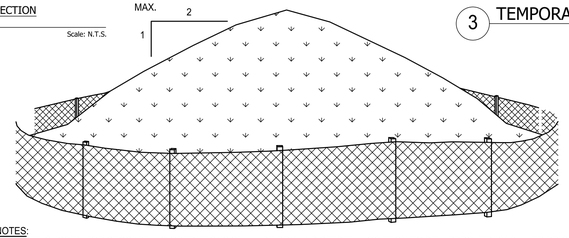
1. WASHOUT AREA SHALL BE SIZED BY THE CONTRACTOR TO ADEQUATELY CONTAIN CONCRETE CLEANOUT.



5 CONCRETE WASHOUT



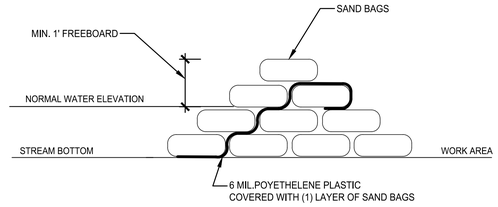
Scale: N.T.S.



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. LOCATION TO BE APPROVED BY OWNER PRIOR TO START OF STOCKPILING OPERATIONS.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1. MAXIMUM HEIGHT SHALL BE 12 FEET.
3. EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, INSTALLED PER CORRESPONDING DETAIL.
4. A PERIMETER DIKE/SWALE SHALL BE LOCATED UP-SLOPE OF THE TOPSOIL STOCKPILE.

6 STOCK PILE

Scale: N.T.S.



7 COFFER DAM

Scale: NTS

EROSION CONTROL GENERAL NOTES

1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
2. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 7 DAYS OF FINAL GRADING.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAN 7 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
5. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
6. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
11. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS BEFORE THEY ARE 45% FULL.

EROSION AND SEDIMENT CONTROLS

1. STABILIZATION PRACTICES (PERMANENT)
PERMANENT STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
   A. LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED
   B. WATERING OF EXCAVATION AND FILL AREAS AS REQUIRED TO MINIMIZE WIND EROSION DURING CONSTRUCTION.
   C. USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:3H OR GREATER.
   D. PERMANENT SEEDING, SODDING AND PLANTING OF ALL UNPAVED AREAS.
   E. LAND GRADING WITH BENCHES TO INTERCEPT STORMWATER RUNOFF TRAVELING DOWN EMBANKMENTS.
   F. USE OF JUTE MESH ALONG BOTTOM AND SIDES OF ALL DRAINAGE SWALES GREATER THAN 3:1 SLOPE.
2. STABILIZATION PRACTICES (TEMPORARY)
TEMPORARY STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
   A. TEMPORARY SEEDING, SODDING AND PLANTING OF ALL UNPAVED AREAS. SEEDED AREAS SHALL BE STABILIZED USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.
   B. MULCHING EXPOSED AREAS.
   C. TEMPORARY MULCHING OF SLOPES LESS THAN 3:1.
   D. WATERING TO MINIMIZE WIND EROSION DURING CONSTRUCTION.

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING EROSION CONTROL AND STORMWATER MANAGEMENT CONTROL STRUCTURES. THE CONTRACTOR MAY DESIGNATE THESE TASKS TO CERTAIN SUBCONTRACTORS AS THEY SEE FIT, BUT THE ULTIMATE RESPONSIBILITY FOR IMPLEMENTING THESE CONTROLS AND ENSURING THEIR PROPER FUNCTIONING REMAINS WITH THE PRIME CONTRACTOR. THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS (REFER TO THE EROSION AND SEDIMENT CONTROL DETAILS CONTAINED ON DRAWING L11 FOR ADDITIONAL INFORMATION.

   A. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS.
   B. INSTALL PERIMETER SILT FENCES.
   C. INSTALL SEDIMENT TRAPS.
   D. PROTECT EXISTING TREES.
   E. STRIP AND STOCKPILE TOPSOIL FOR REUSE ON SITE. STOCKPILE TOPSOIL ON SITE AS AGREED UPON AT PRECONSTUCTION MEETING. INSTALL SILT FENCE AT PERIMETER OF STOCKPILE AS REQUIRED.
   F. PROTECT EXISTING DRAINAGE BASINS REQUIRED TO PROTECT STORM SYSTEM.
   G. SITE MASS GRADING/EXPORT WORK.
   H. PROOF ROLL EXISTING GRADE.
   I. BEGIN FILLING AND COMPACTING SITE.
   J. ESTABLISH SUBGRADE OF PAVING.
   K. PLACE STONE BASE MATERIAL FOR PAVING.
   L. INSTALL STORM DRAIN INLETS AND PIPING.
   M. STORMWATER MANAGEMENT INSTALLATION.
   N. PAVE ASPHALT AREAS.
   O. FINAL GRADING, SEEDING, AND PLANTING.
   P. REMOVE SILT FENCE, PROTECTIVE TREE FENCING, DRAINAGE BASIN PROTECTION AND STONE CHECK DAMS ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.

OTHER CONTROLS

1. STABILIZED CONSTRUCTION EXITS SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS ADJACENT TO THE SITE ENTRANCE SHALL BE INSPECTED DAILY AND SWEPT AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN. THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
2. EXCAVATION OF SPOIL MATERIALS GENERATED DURING THE GRADING OF THE SITE MUST BE PROPERLY MANAGED TO PREVENT THEM FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE MATERIALS GENERATED FROM THE DEVELOPMENT OF THIS PROJECT WILL BE STABILIZED BY VEGETATIVE AND STRUCTURAL MEANS, DEPENDING ON LOCATION WITHIN THE PROJECT SITE.
3. DUST CONTROL: MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
   A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH A NON-ERODIBLE MATERIAL.
   B. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
   C. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES AND PARKING AREAS

MAINTENANCE/INSPECTION PROCEDURES

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. IF THE CONTRACTOR DISTURBS MORE THAN FIVE ACRES OF SOIL AT ONE TIME, THE PROJECT SITE SHALL BE INSPECTED TWICE PER WEEK.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS OR OTHER EROSION CONTROL MEASURES ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
4. ALL SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE INSPECTED AFTER EVERY RAIN EVENT AND AT LEAST ONCE EVERY SEVEN DAYS. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 45% DESIGN DEPTH.
5. SILT FENCES WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.
6. TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
7. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THE SWPPP.
8. SUCF SHALL HAVE A "QUALIFIED PROFESSIONAL" CONDUCT SITE INSPECTIONS FOLLOWING THE COMMENCEMENT OF CONSTRUCTION. A "QUALIFIED PROFESSIONAL" IS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS, SUCH AS A LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), OR SOIL SCIENTIST.
9. DISTURBED AREAS AND MATERIAL STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING STORMWATER SYSTEMS.
10. RELEASES OF HAZARDOUS SUBSTANCES OR OIL IN EXCESS OF REPORTABLE QUANTITIES (AS ESTABLISHED UNDER 40 CFR 110, 40 CFR 117 OR 40 CFR 302) MUST BE REPORTED. FORM G-1 PROVIDES FURTHER DETAILS ON THE NOTIFICATION AND REPORTING PROCESS.
11. LONG TERM MAINTENANCE - THE SITE CONTRACTOR IS TO REMOVE ALL ACCUMULATED SEDIMENT FROM THE STORMWATER MITIGATION AREAS ONCE CONSTRUCTION IS COMPLETE AND ALL EXPOSED SURFACES ARE STABILIZED. REMOVED SEDIMENT CAN BE DISPOSED BY EITHER LAND APPLICATION OR LAND FILLING. IN EITHER CASE, SEDIMENT SHALL BE STABILIZED BY EITHER STRUCTURAL OR VEGETATIVE PRACTICES TO PREVENT EROSION.

INSPECTION AND MAINTENANCE REPORT FORMS

1. ONCE INSTALLATION OF ANY REQUIRED OR OPTIONAL EROSION CONTROL DEVICE OR MEASURE HAS BEEN IMPLEMENTED, AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, INSPECTIONS OF EACH MEASURE SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL. INSPECTIONS SHALL OCCUR TWICE PER WEEK IF IN EXCESS OF FIVE ACRES OF PROPERTY IS DISTURBED AT ONE TIME. THE FORMS FOUND IN THE SWPPP SHALL BE USED BY THE INSPECTORS TO INVENTORY AND REPORT THE CONDITION OF EACH MEASURE TO ASSIST IN MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER.
2. REPORT FORMS SHALL BECOME AN INTEGRAL PART OF THE SWPPP AND SHALL BE MADE READILY ACCESSIBLE TO GOVERNMENTAL INSPECTION OFFICIALS, THE OPERATOR'S ENGINEER, AND THE OPERATOR FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE. IN ADDITION, COPIES OF THE REPORTS SHALL BE PROVIDED TO ANY OF THESE PERSONS, UPON REQUEST, VIA MAIL OR FACSIMILE TRANSMISSION. INSPECTION AND MAINTENANCE REPORT FORMS ARE TO BE MAINTAINED BY THE PERMITTEE FOR FIVE YEARS FOLLOWING THE FINAL STABILIZATION OF THE SITE.

OTHER RECORD-KEEPING REQUIREMENTS

1. THE CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO CONSTRUCTION ACTIVITIES AT THE SITE. COPIES OF ALL SWPPP RELATED DOCUMENTS SHALL ADDITIONALLY BE SUBMITTED TO THE CM AND THE ARCHITECT ON A WEEKLY BASIS.
   a. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE GRADED.
   b. DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL CONTROLS.
   c. DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA.
   d. DATES WHEN AN AREA IS STABILIZED, EITHER TEMPORARILY OR PERMANENTLY.
   e. DATES OF RAINFALL AND THE AMOUNT OF RAINFALL.
   f. DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF ANY SPILLS OF HAZARDOUS MATERIALS.
   g. RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS ARE SPILLED.

SEEDING REQUIREMENTS

METHOD OF PERMANENT SEEDING

1. SEE PROJECT MANUAL SECTIONS 32 92 00 LAWNS & GRASSES FOR ADDITIONAL INFORMATION.
2. PERMANENT SEEDINGS SHOULD TAKE PLACE IN EARLY SPRING OR THE LATE SUMMER/EARLY FALL. PROPER MULCHING AND ADEQUATE MOISTURE MUST BE PROVIDED FOR PERMANENT SEEDING. RESEEDING OF FAILED AREAS SHALL TAKE PLACE DURING LATE SUMMER/EARLY FALL OR DURING THE FOLLOWING SPRING.

FERTILIZER:
19% NITROGEN
19% PHOSPHORUS
19% POTASH

HYDROMULCH
HYDROMULCH SHALL BE A WOOD-FIBER COMPOSITION
(50% PAPER - 50% WOOD)
IF MULCHING IS NOT APPLIED WITH HYDROSEED MIXTURE, APPROVED MULCHING, CONSISTING OF STALKS OF WHEAT, OATS, OR RYE, SHALL BE SPREAD EVENLY AT A RATE OF 2 TONS PER ACRE. MULCH IS TO BE TACKED INTO PLACE.

METHOD OF TEMPORARY SEEDING

1. DRILLING WITH A CULTIPACK TYPE SEEDER OR HYDROSEEDING ARE ACCEPTABLE SEEDING METHODS. GOOD SOIL TO SEED CONTACT IS REQUIRED.
2. MULCHING - APPLY STRAW MULCH AT A RATE OF 2 TONS/ACRE (90 LBS./1,000 SF) ANCHORED WITH WOOD FIBER MULCH (HYDROMULCH) AT 500 - 750 LBS./ACRE (11 - 17 LBS./1,000 SF). THE WOOD FIBER MULCH MUST BE APPLIED THROUGH A HYDROSEEDER AFTER MULCHING.
3. IRRIGATION - MOISTURE IS ESSENTIAL TO ESTABLISH NEW SEEDING. WEATHER CONDITIONS WILL DICTATE WHEN TO WATER. EACH WATER APPLICATION MUST BE UNIFORMLY APPLIED AND 1 TO 2 INCHES OF WATER SHOULD BE APPLIED PER APPLICATION.

TEMPORARY SEEDING MIXTURES

FOR SPRING, SUMMER OR EARLY FALL SEEDINGS:	LBS./ACRE	LBS./1000 SQ FT.
A. ANNUAL RYEGRASS	30	0.70
B. PERENNIAL RYEGRASS	30	0.70
FOR LATE FALL OR EARLY WINTER		
A. WINTER RYE	100	2.50

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

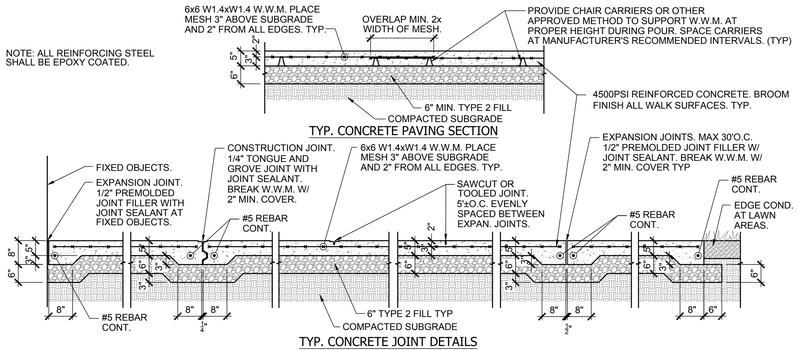
Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Tri-State Area
Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-010.006
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7.000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7.001-001
106 Hammond Rd.
Pomona, NY 10970
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

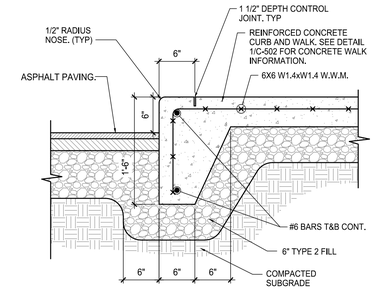
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title: SITE PREPARATION DETAILS
Drawing No. C-710 of X



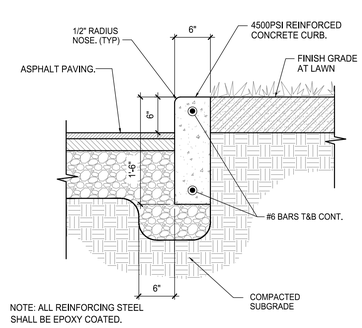
1 CONCRETE PAVING DETAILS

Scale: 1/2"=1'-0"



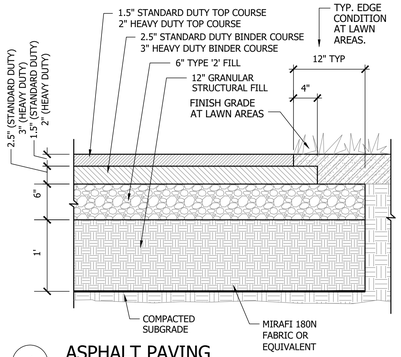
2 INTEGRAL CONCRETE CURB & WALK

Scale: N.T.S.



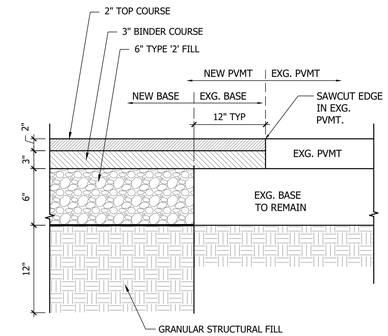
3 CONCRETE CURB AT LAWN

Scale: N.T.S.



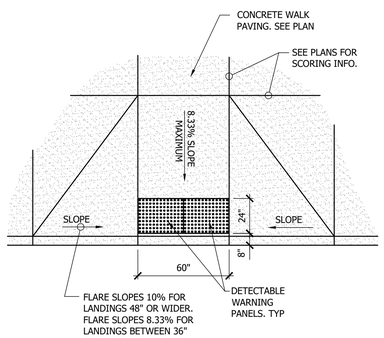
4 ASPHALT PAVING

Scale: N.T.S.



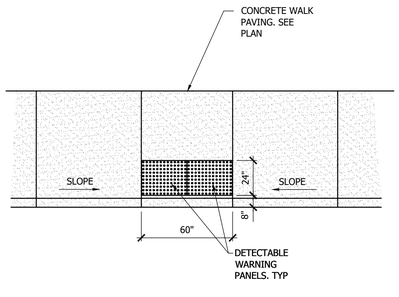
5 NEW TO EXG ASPHALT PAVEMENT (HEAVY DUTY)

Scale: N.T.S.



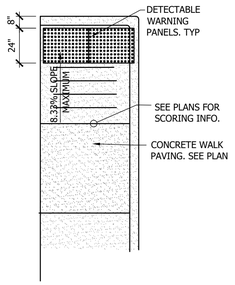
6 CONCRETE CURB CUT - TYPE A

Scale: N.T.S.



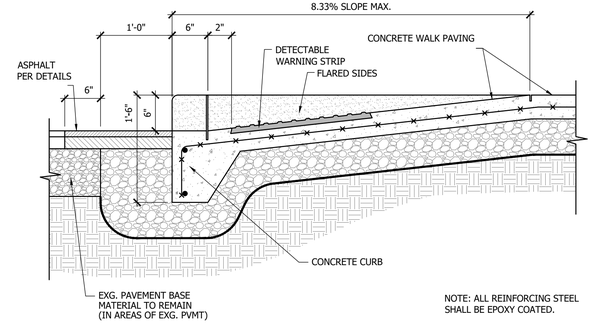
7 CONCRETE CURB CUT - TYPE B

Scale: N.T.S.



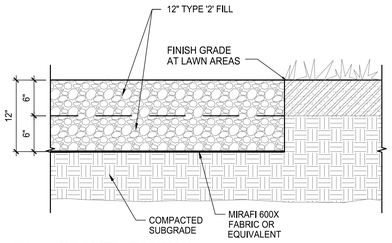
8 CONCRETE CURB CUT - TYPE C

Scale: N.T.S.



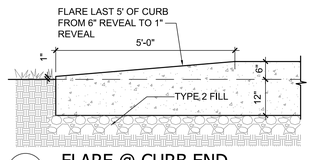
9 CONCRETE CURB CUT SECTION @ CONCRETE WALK

Scale: N.T.S.



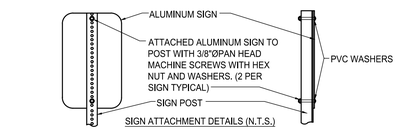
10 GRAVEL PAVING

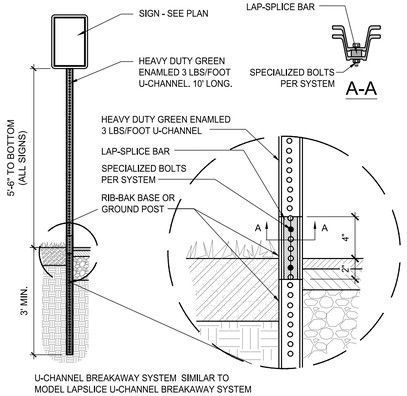
Scale: N.T.S.

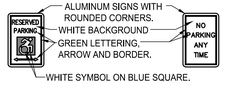


12 FLARE @ CURB END

Scale: N.T.S.

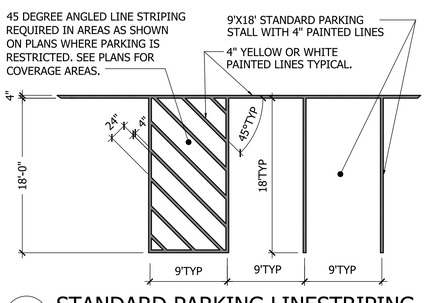






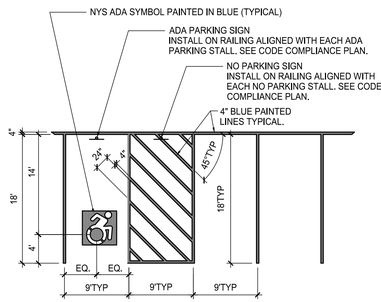
14 TRAFFIC SIGNAGE

Scale: N.T.S.



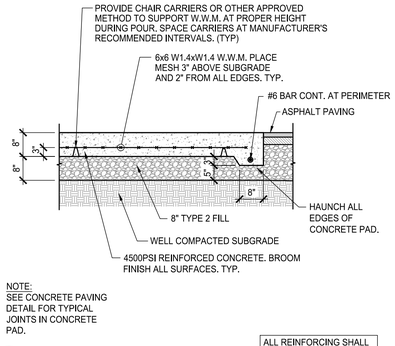
11 STANDARD PARKING LINESTRIPING

Scale: 1"=10'-0"



13 ACCESSIBLE PARKING LINESTRIPING

Scale: 1"=10'-0"



15 CONCRETE PAD

ALL REINFORCING SHALL BE EPOXY COATED.

Scale: N.T.S.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving the Region Since 1965

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-006
PRESS BOX - SOFTBALL SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SED# 50-02-01-06-7-001-001

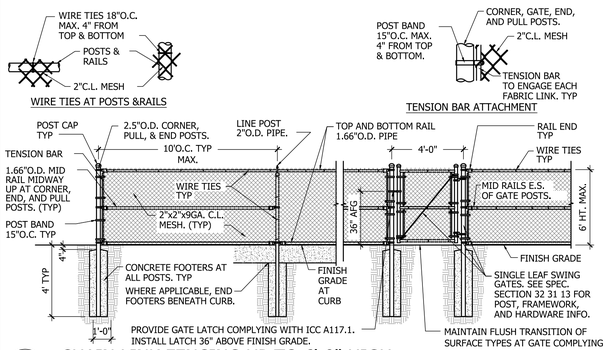
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

106 Hammond Rd.
Thiells, NY 10984

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

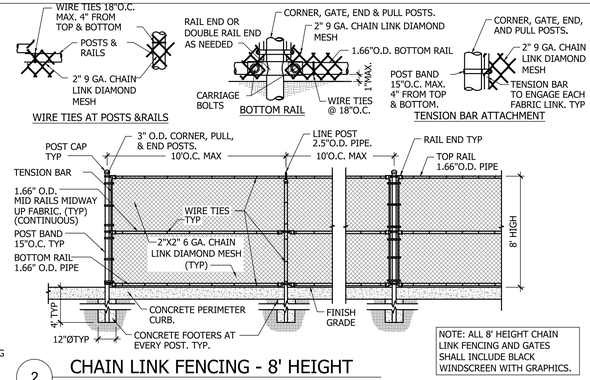
Drawing Title: SITE DETAILS

Drawing No. C-711 of X

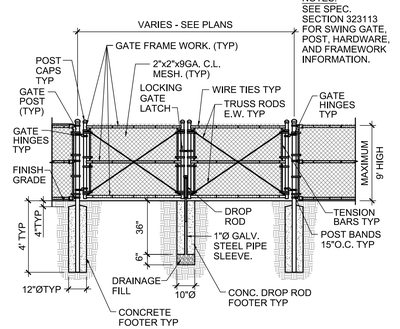


1 CHAIN LINK FENCING UP TO 6'-0" HIGH

Scale: N.T.S.

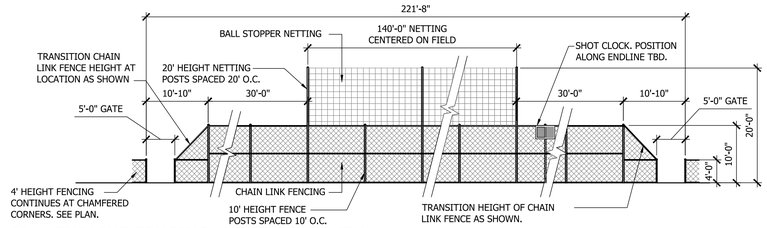


2 CHAIN LINK FENCING - 8' HEIGHT



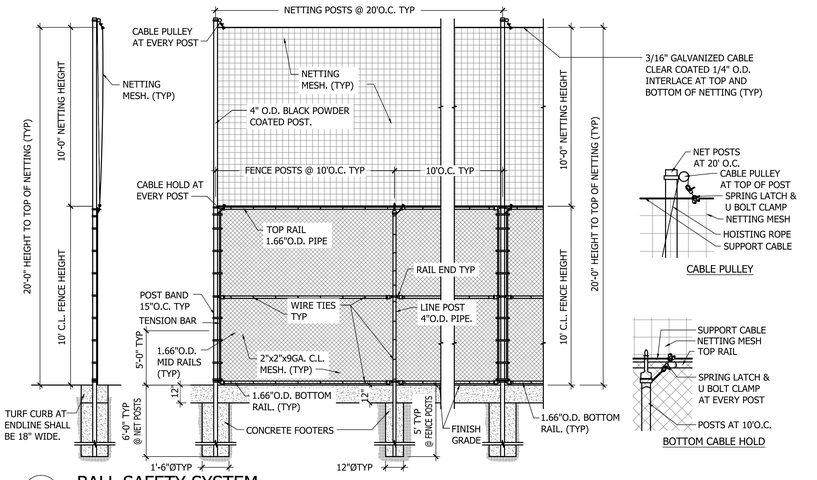
3 DOUBLE SWING GATE

Scale: N.T.S.



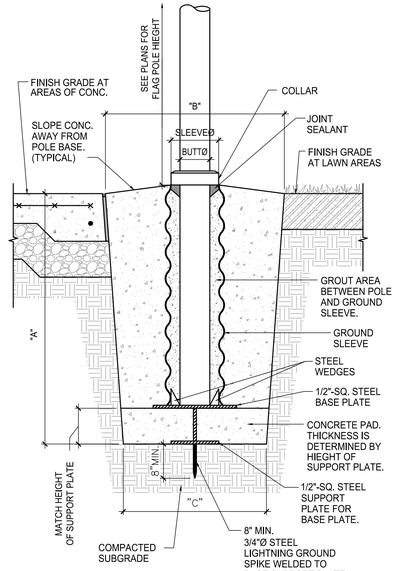
4 ENDLINE FENCING (NORTH & SOUTH)

Scale: N.T.S.



5 BALL SAFETY SYSTEM

Scale: N.T.S.



HEIGHT	BUTT DIAMETER	SLEEVE DIAMETER	DEPTH "A"	TOP "B"	BOTTOM "C"
20'-0"	5"	8"	3'-6"	2'-6"	2'-0"
25'-0"	6"	10"	3'-6"	2'-6"	2'-0"
30'-0"	6"	10"	3'-6"	2'-6"	2'-0"
35'-0"	7"	10"	4'-0"	3'-0"	2'-6"
40'-0"	8"	12"	4'-6"	3'-6"	3'-0"
45'-0"	8"	12"	5'-0"	4'-0"	3'-6"
50'-0"	10"	15"	5'-8"	4'-0"	3'-6"
60'-0"	12"	15"	6'-10"	5'-0"	4'-0"
70'-0"	12"	15"	8'-0"	5'-0"	4'-0"
80'-0"	12"	15"	9'-0"	5'-0"	4'-0"

6 FLAG POLE

Scale: 1"=1'-0"

7

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Troy • Albany • Syracuse • Rome

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-000
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-001-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

150 Beaverwood Rd.
Thiells, NY 10984

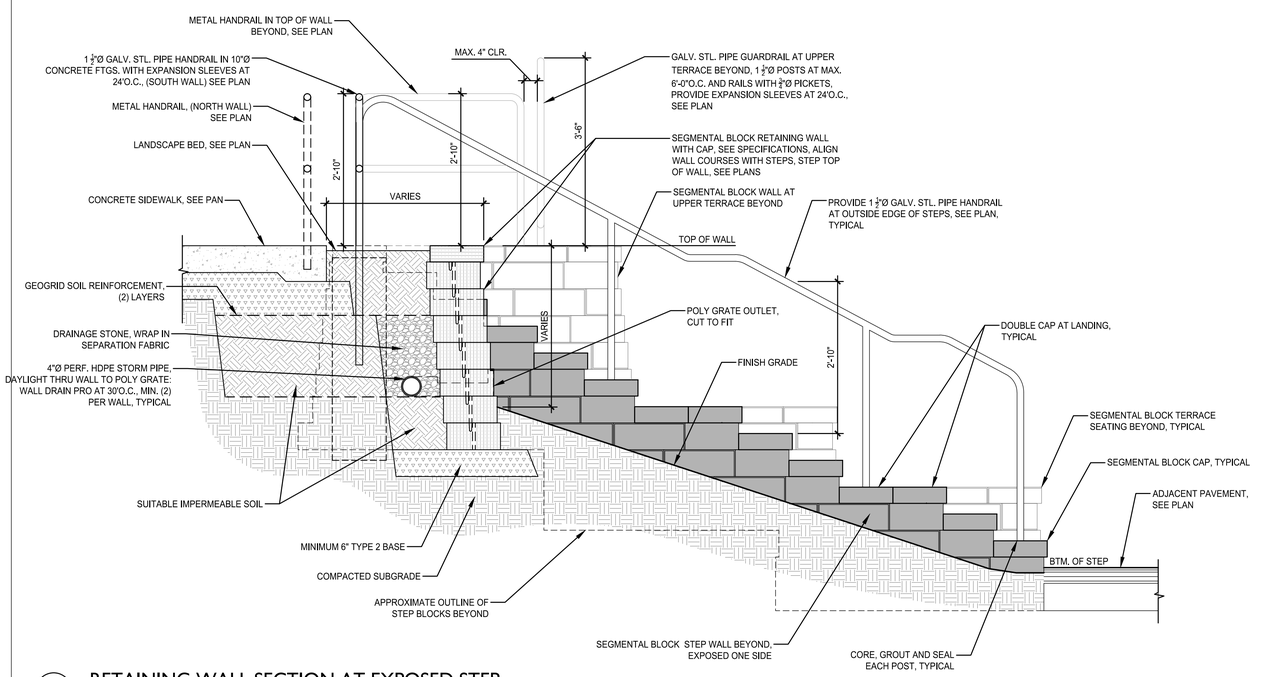
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

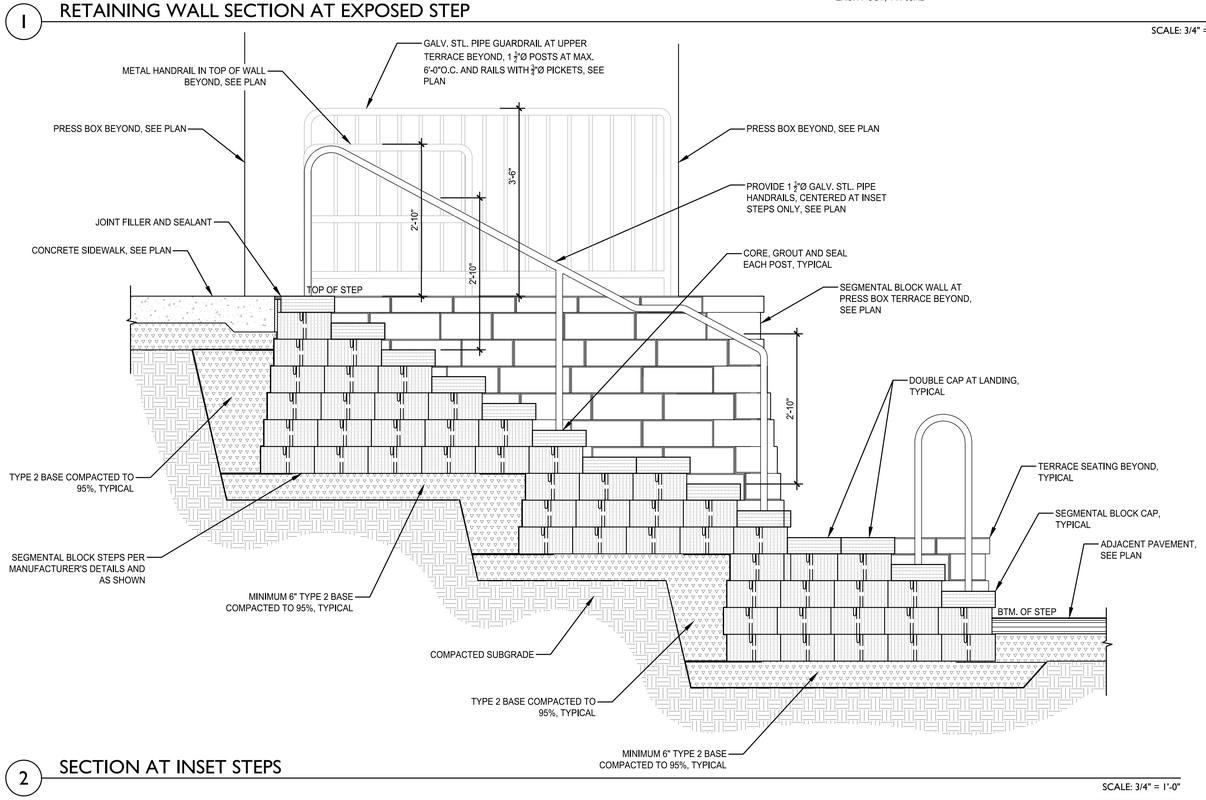
Drawing Title: SITE DETAILS

Drawing No. C-712 of X



1 RETAINING WALL SECTION AT EXPOSED STEP

SCALE: 3/4" = 1'-0"



2 SECTION AT INSET STEPS

SCALE: 3/4" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving the Hudson Valley

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-1-016-000
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

190 Hammond Rd.
Suffern, NY 10954

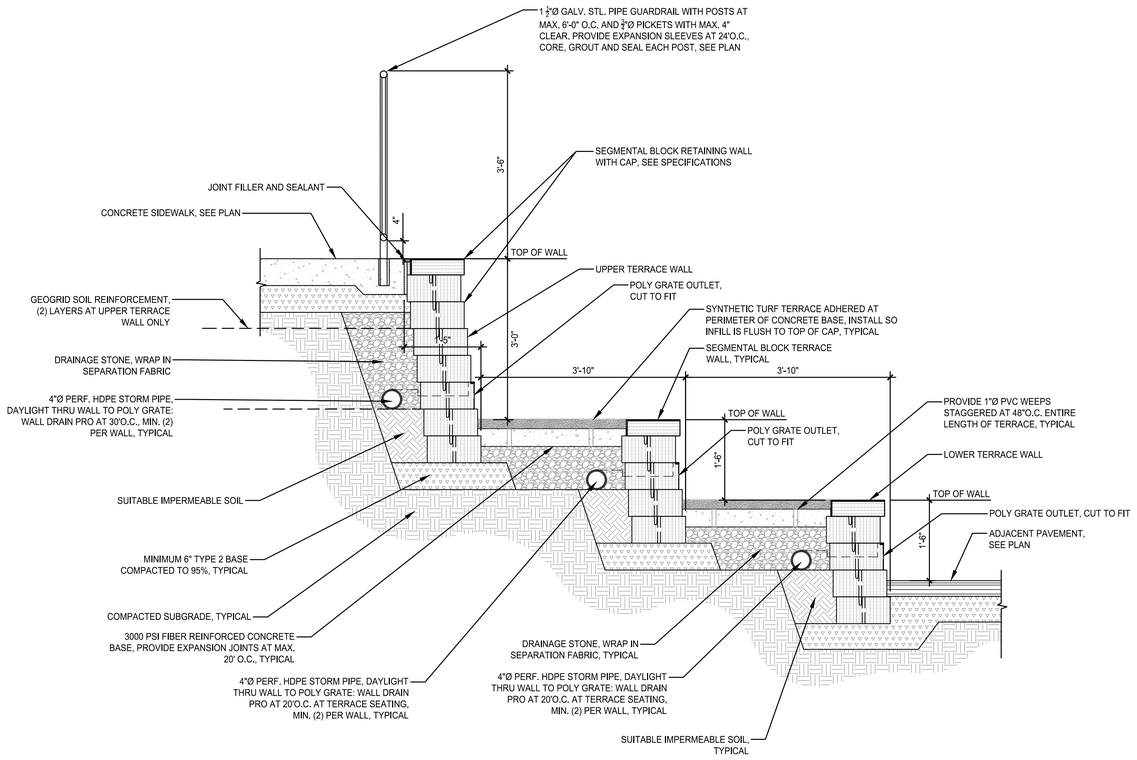
TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

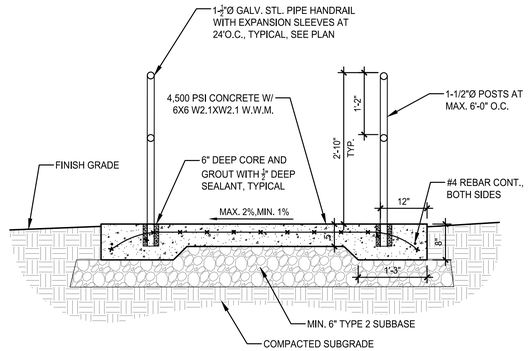
Drawing Title
STAIR & WALL DETAILS

Drawing No.
C-713
of X



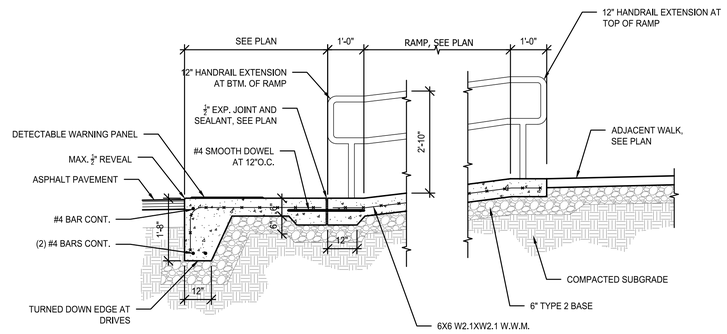
1 SECTION AT TERRACE SEATING

SCALE: 3/4" = 1'-0"



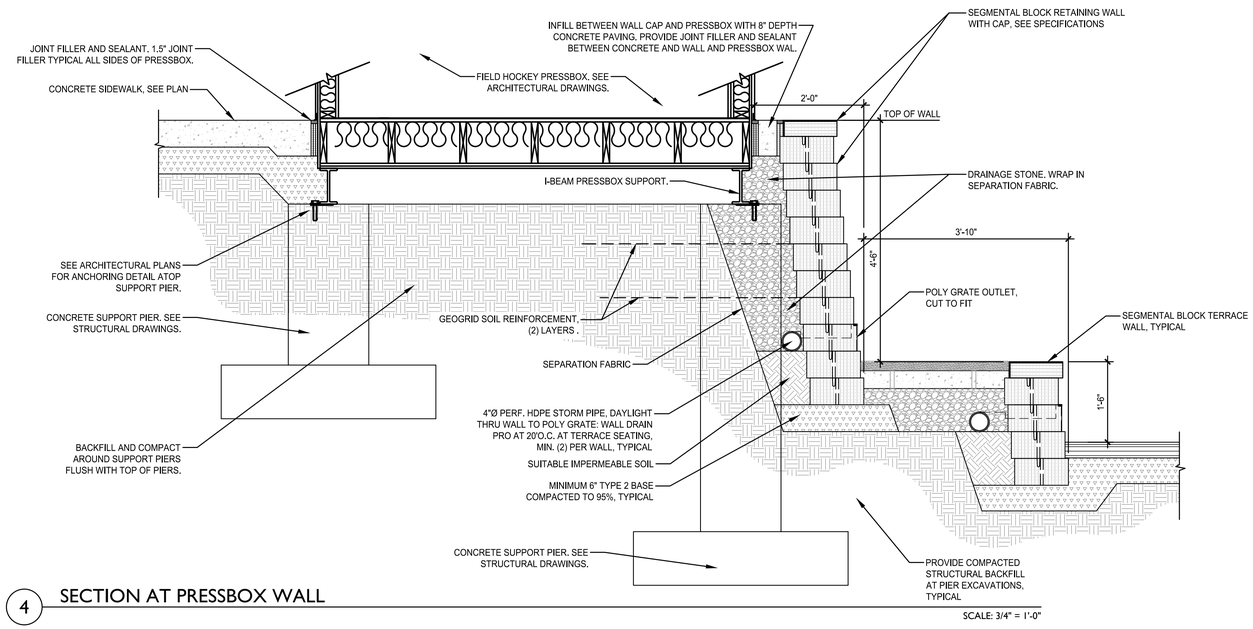
2 SECTION AT SIDEWALK RAMP

SCALE: 3/4" = 1'-0"



3 LANDING DETAILS AT SIDEWALK RAMPS

Scale: 1/2"=1'-0"



4 SECTION AT PRESSBOX WALL

SCALE: 3/4" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Troy • Poughkeepsie

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-7-006-001
PRESS BOX - SOFTBALL SED# 50-02-01-06-7-006-001
PRESS BOX - BASEBALL SED# 50-02-01-06-7-001-001

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

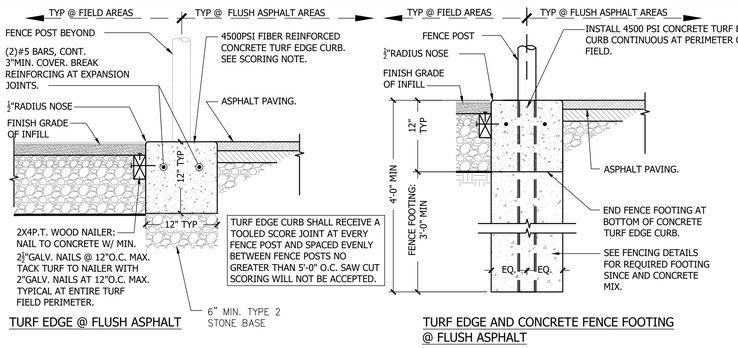
106 Hammond Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

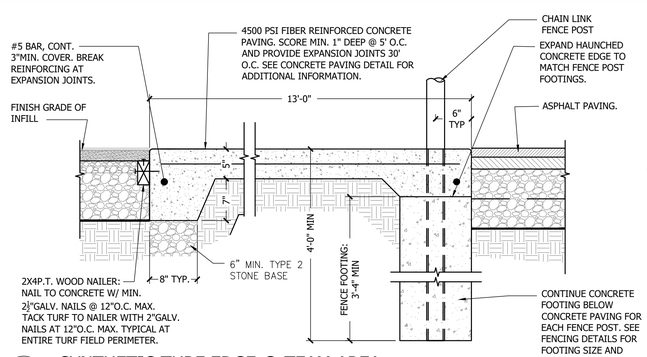
Drawing Title
STAIR & WALL DETAILS

Drawing No.
C-714
of X



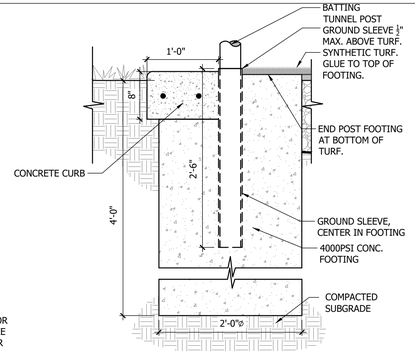
1 SYNTHETIC TURF EDGE @ FLUSH ASPHALT

Scale: N.T.S.



2 SYNTHETIC TURF EDGE @ TEAM AREA

Scale: N.T.S.

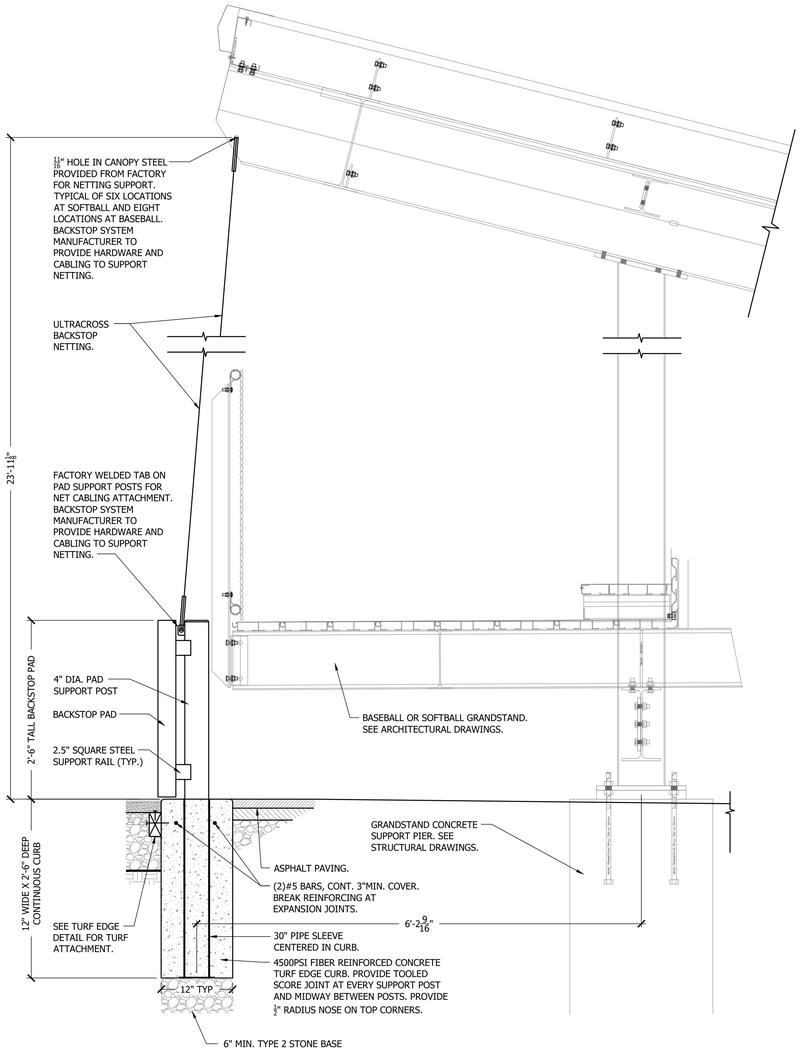


3 BATTING TUNNEL POST

Scale: N.T.S.

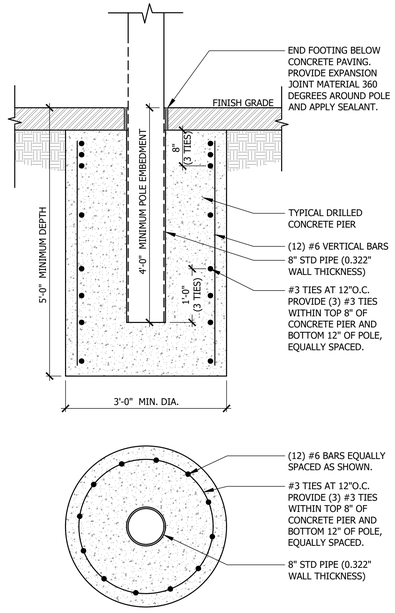
4 DETAIL NOT USED

SCALE: N.T.S.



5 BACKSTOP PADDING AND NETTING

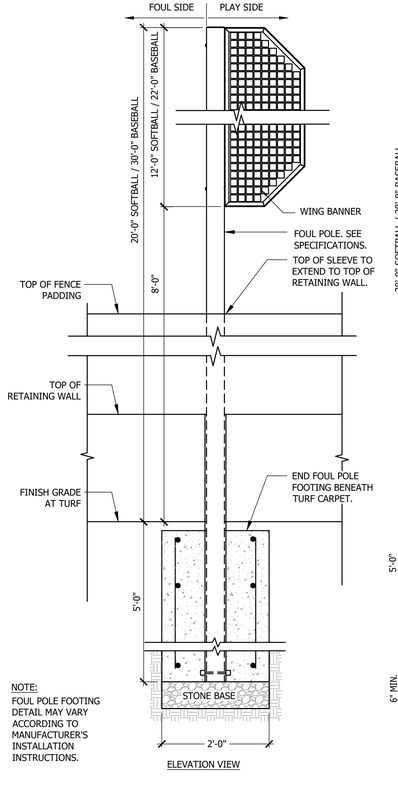
Scale: 1"=1'-0"



NOTE:
THE CONCRETE FOOTING FOR THE NETTING SYSTEM POLE IS A DELEGATED DESIGN ITEM REQUIRING A NYS CERTIFIED ENGINEER'S STAMP DURING THE SHOP DRAWING SUBMITTAL PROCESS. ALL INFORMATION CONTAINED WITHIN THIS DETAIL IS FOR BIDDING PURPOSES ONLY.

6 BACKSTOP NETTING POLE FOOTING

Scale: N.T.S.



NOTE:
FOUL POLE FOOTING DETAIL MAY VARY ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7 FOUL POLE AT RETAINING WALL

Scale: N.T.S.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving Upstate New York

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-036
PRESS BOX – SOFTBALL SED# 50-02-01-06-7-004-001
PRESS BOX – BASEBALL SED# 50-02-01-06-7-001-001

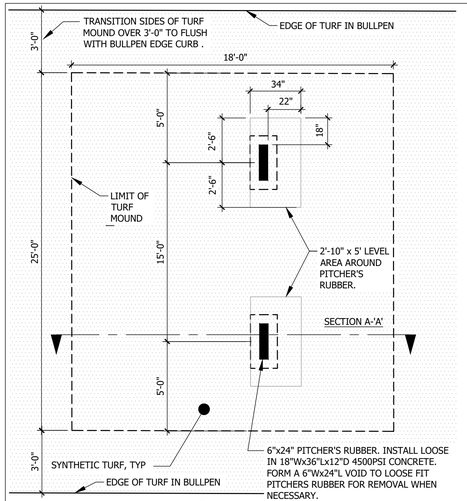
136 Hammond Rd.
Pearl River, NY 10965

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

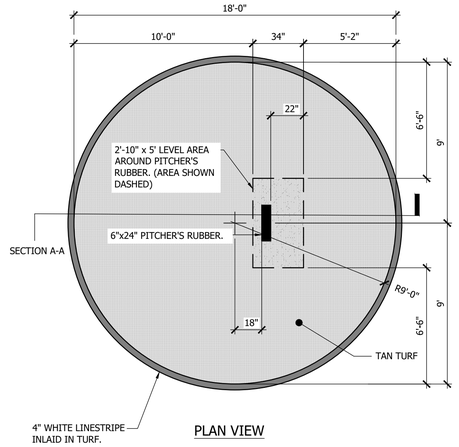
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
ATHLETIC DETAILS

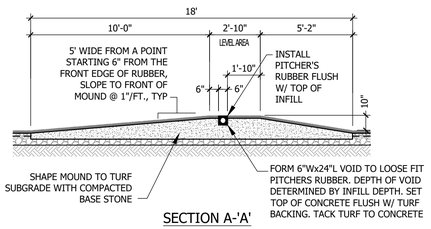
Drawing No.
C-715
of X



PLAN VIEW



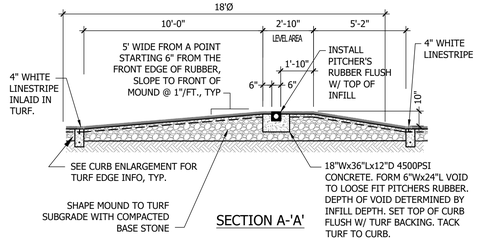
PLAN VIEW



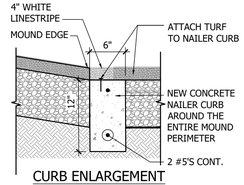
SECTION A-'A'

1 PITCHER'S MOUND AT BULLPEN

Scale: N.T.S.



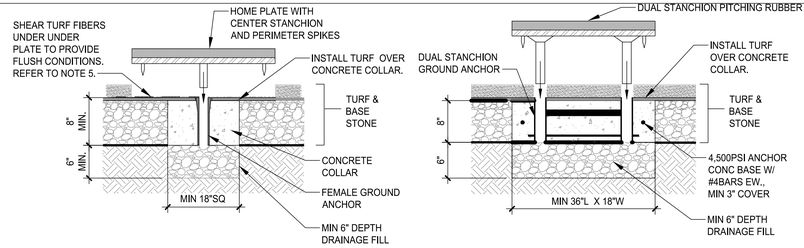
SECTION A-'A'



CURB ENLARGEMENT

2 PITCHER'S MOUND

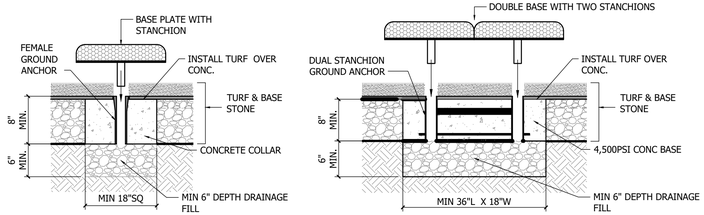
Scale: N.T.S.



NOTES:
1. INSTALL GROUND SLEEVES IN CONCRETE AS SHOWN, OR AS SPECIFICALLY RECOMMENDED BY BASE MANUFACTURER. SET TOP OF GROUND ANCHORS FLUSH WITH BASE OF TURF.
2. INSTALL TURF OVER CONCRETE BASES AND PROVIDE CUTOUTS FOR BASE INSTALLATION.
3. KEEP BOTTOM OF GROUND SLEEVES OPEN FOR DRAINAGE.
4. PROVIDE COVER PLUGS FOR EACH BASE ANCHOR.
5. INSTALL TOP OF HOME PLATE LEVEL WITH SURROUNDING INFILL SURFACE. REMOVE/SHEAR TURF FIBERS UNDER PLATE AND PROVIDE INFILL AT PERIMETER IN AREA AS NECESSARY.

3 HOME PLATE/SOFTBALL PITCHING RUBBER ANCHOR DETAILS

Scale: N.T.S.



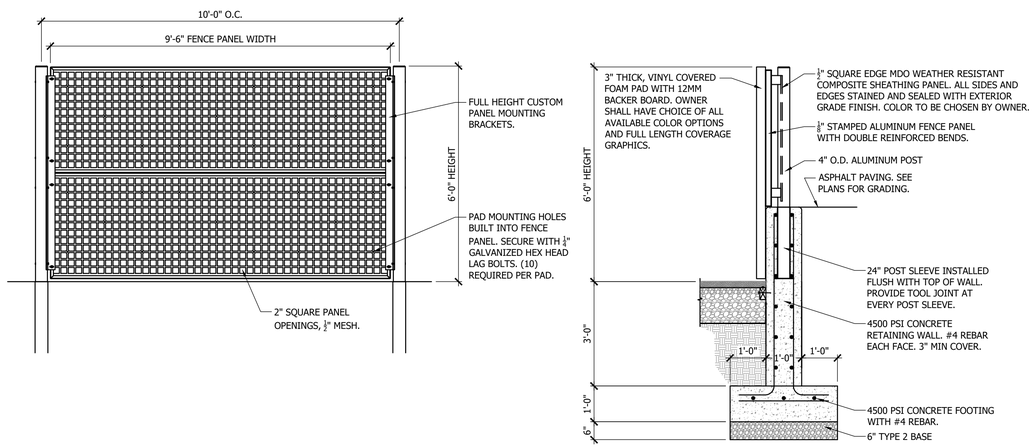
TYPICAL BASE ANCHORS

DOUBLE FIRST BASE (SOFTBALL ONLY)

NOTES:
1. INSTALL GROUND SLEEVES IN CONCRETE AS SHOWN, OR AS SPECIFICALLY RECOMMENDED BY BASE MANUFACTURER. SET TOP OF GROUND ANCHORS FLUSH WITH BASE OF TURF.
2. INSTALL TURF OVER CONCRETE BASES AND PROVIDE CUTOUTS FOR BASE INSTALLATION.
3. KEEP BOTTOM OF GROUND SLEEVES OPEN ON BOTTOM FOR DRAINAGE.
4. PROVIDE COVER PLUG FOR EACH BASE ANCHOR. SEE PROJECT MANUAL FOR PRODUCT INFO.

4 BASE ANCHORS AT SYNTHETIC TURF

Scale: N.T.S.



5 OUTFIELD PADDED FENCING

Scale: N.T.S.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering P.C.
Serving Upstate New York

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

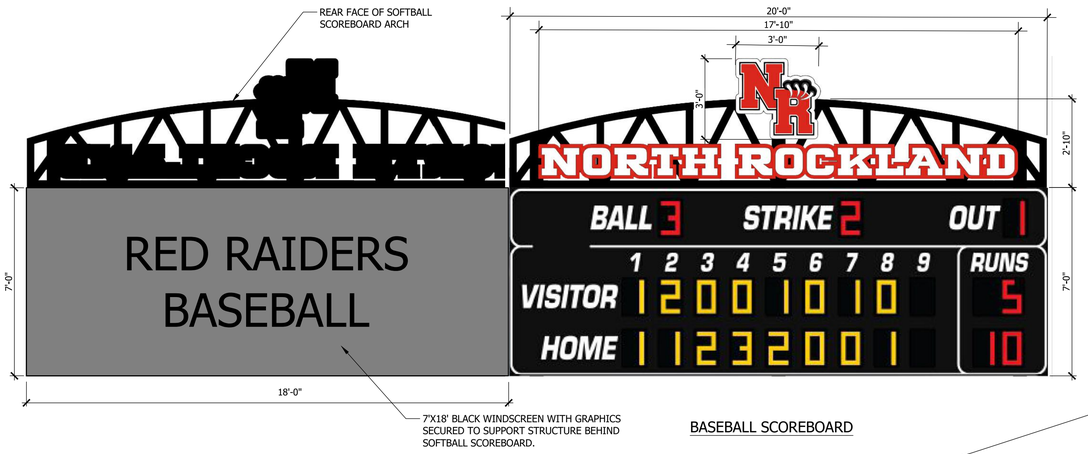
HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND
108 Hammond Rd.
Suffern, NY 10901

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

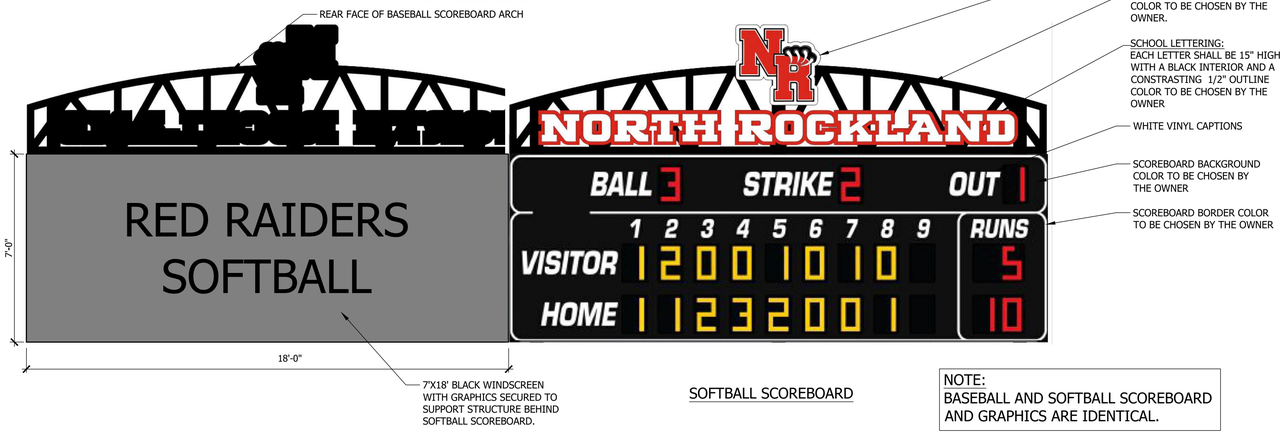
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: ATHLETIC DETAILS

Drawing No. C-716 of X



BASEBALL SCOREBOARD



SOFTBALL SCOREBOARD

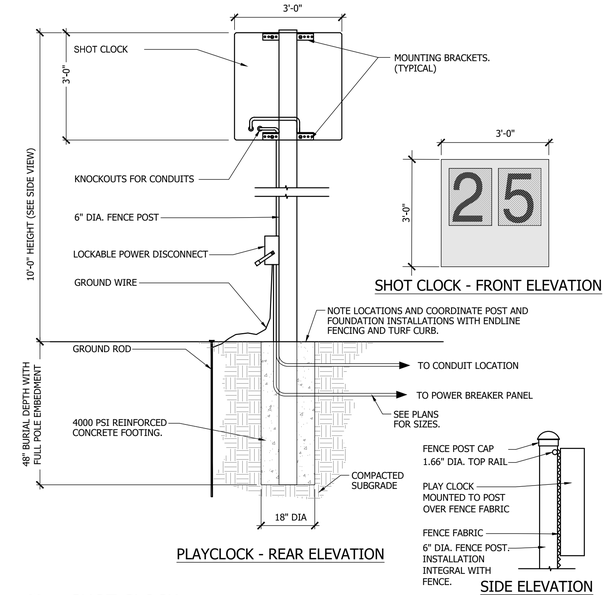
NOTE:
BASEBALL AND SOFTBALL SCOREBOARD AND GRAPHICS ARE IDENTICAL.

FIELD HOCKEY SCOREBOARD

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR CONNECTIONS.
2. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT STRUCTURE AND FOUNDATIONS.
3. REFER TO PROJECT MANUAL SECTION 116843 - EXTERIOR SCOREBOARDS FOR PRODUCT INFORMATION.
4. ALL GRAPHICS ARE LISTED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL SUBMIT COLOR SHOP DRAWINGS FOR OWNER APPROVAL PRIOR TO ORDERING EQUIPMENT.

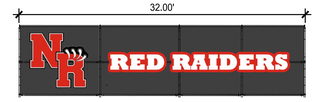
1 BASEBALL, SOFTBALL, AND FIELD HOCKEY SCOREBOARDS

Scale:N.T.S.

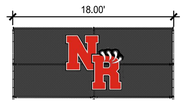


2 SHOT CLOCK

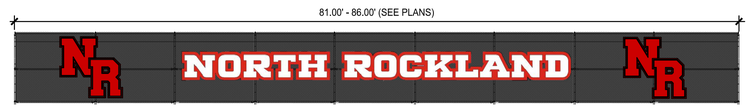
Scale: N.T.S.



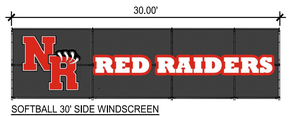
BASEBALL 32' SIDE WINDSCREEN



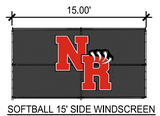
BASEBALL 18' SIDE WINDSCREEN



BASEBALL REAR WINDSCREEN



SOFTBALL 30' SIDE WINDSCREEN



SOFTBALL 15' SIDE WINDSCREEN

SOFTBALL REAR WINDSCREEN

3 BULLPEN WINDSCREEN GRAPHICS

SCALE: N.T.S.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Revisions	Date
1	BIDDING DOCUMENTS	9/03/24

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Tri-State Area

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-06-0-010-006
PRESS BOX – SOFTBALL SBL#: 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL#: 50-02-04-06-7-001-001
106 Hammond Rd.
Pearl River, NY 10965

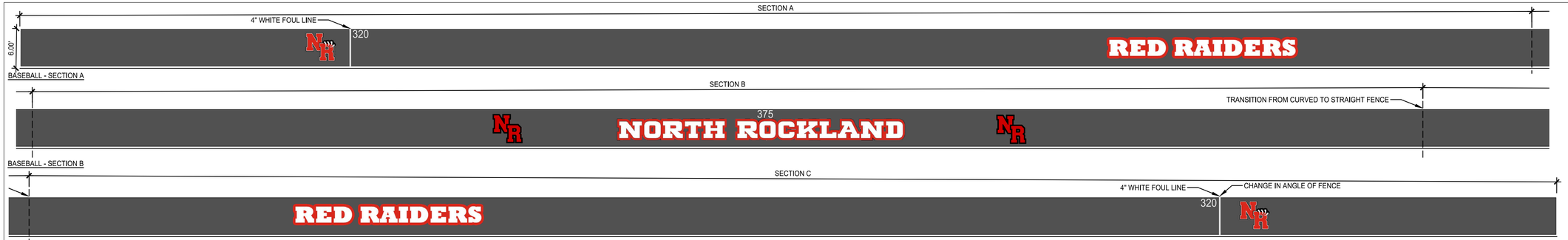
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

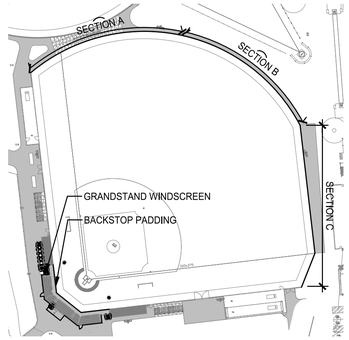
Drawing Title
ATHLETIC DETAILS

Drawing No.
C-717
of X

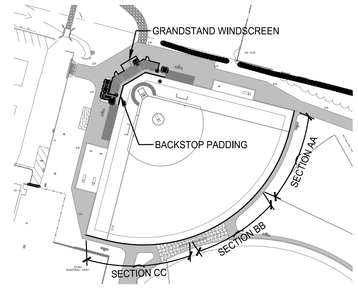


1 OUTFIELD PADDING GRAPHICS

SCALE: N.T.S.

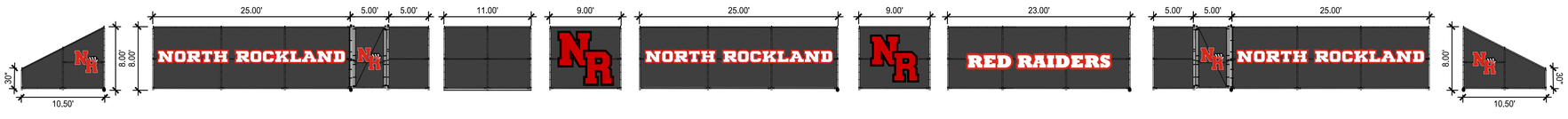


BASEBALL KEY MAP



SOFTBALL KEY MAP

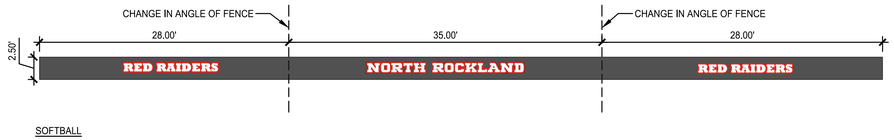
SOFTBALL



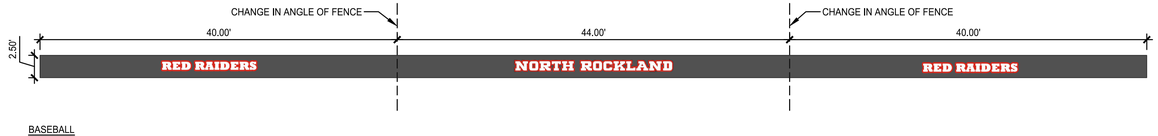
BASEBALL

2 GRANDSTAND WINDSCREEN GRAPHICS

SCALE: N.T.S.



SOFTBALL



BASEBALL

3 BACKSTOP PADDING GRAPHICS

SCALE: N.T.S.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering P.C.
Serving the Hudson Valley

Landscape Architect & Civil Engineer:

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SED# 50-02-01-06-0-010-036
PRESS BOX – SOFTBALL SED# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SED# 50-02-01-06-7-001-001

106 Hammond Rd.
Blauvelt, NY 10913

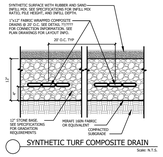
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ATHLETIC DETAILS

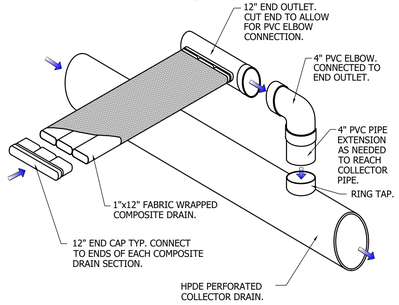
Drawing No.
C-718
of X



1 SYNTHETIC TURF COMPOSITE DRAIN

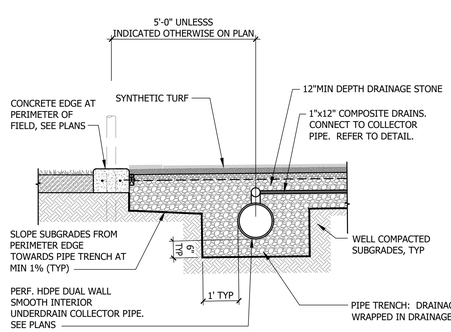
Scale: N.T.S.

NOTES:
1. USE PVC TAPE ON ALL COMPOSITE PIPE CONNECTIONS.
2. DRAINAGE FLOW DIRECTION →



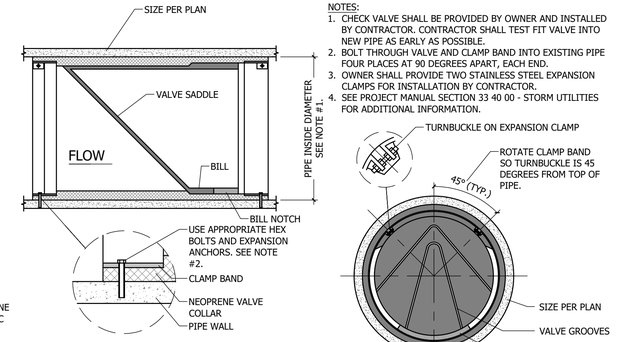
2 COMPOSITE DRAIN CONNECTIONS

Scale: N.T.S.

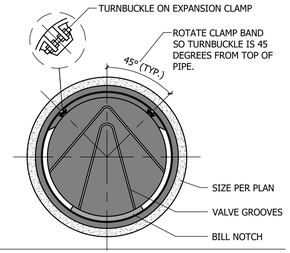


3 TURF FIELD COLLECTOR PIPE

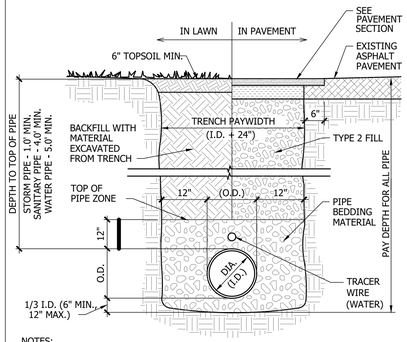
Scale: NTS



NOTES:
1. CHECK VALVE SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL TEST FIT VALVE INTO NEW PIPE AS EARLY AS POSSIBLE.
2. BOLT THROUGH VALVE AND CLAMP BAND INTO EXISTING PIPE FOUR PLACES AT 90 DEGREES APART, EACH END.
3. OWNER SHALL PROVIDE TWO STAINLESS STEEL EXPANSION CLAMPS FOR INSTALLATION BY CONTRACTOR.
4. SEE PROJECT MANUAL SECTION 33 40 00 - STORM UTILITIES FOR ADDITIONAL INFORMATION.



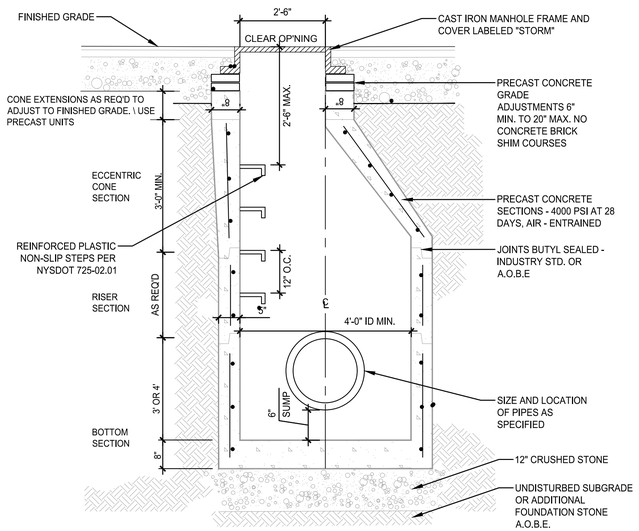
4 NEOPRENE CHECK VALVE



NOTES:
1. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY SHORING/DEWATERING.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.
4. MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS AS REQUIRED BY OSHA REGULATIONS.
5. MINIMUM BURY DEPTHS SHOWN ABOVE APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. BEDDING FOR ALL PIPING TO BE NATIVE MATERIAL. MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

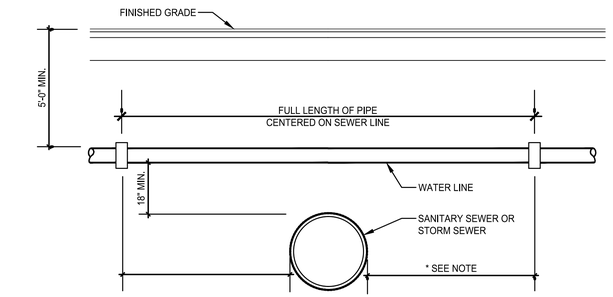
5 PIPE TRENCH

Scale: N.T.S.



6 STORMWATER MANHOLE

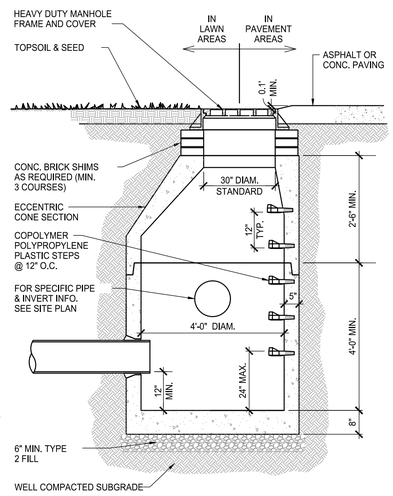
Scale: N.T.S.



NOTE:
(REFERENCE - "TEN STATE STANDARDS")
WHEN INSTALLED PARALLEL, ALL WATER AND SEWER LINES SHALL HAVE A MINIMUM SEPARATION OF 10' EDGE TO EDGE. IF MINIMUM CANNOT BE MAINTAINED, WATER MAIN SHALL BE IN SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF TO ONE SIDE OF SEWER, WITH BOTTOM OF WATER MAIN 18" MINIMUM ABOVE TOP OF SEWER PIPE. WHEN CROSSING, MAINS SHALL BE INSTALLED TO INSURE 18" MINIMUM VERTICAL SEPARATION BETWEEN PIPES, OUTSIDE TO OUTSIDE. WHERE WATER MAIN IS UNDERNEATH SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO WATER MAIN. WHEN IT IS IMPOSSIBLE TO PROVIDE THE ABOVE MINIMUMS, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.

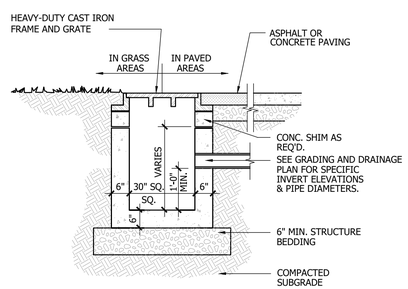
7 UTILITY CROSSING

Scale: N.T.S.



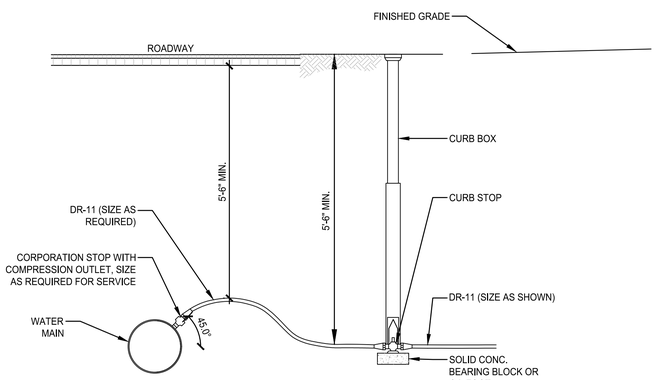
8 CATCH BASIN

Scale: N.T.S.



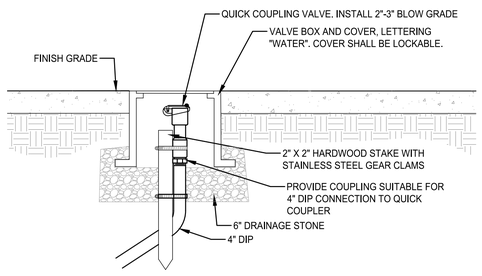
10 DROP INLET

Scale: N.T.S.



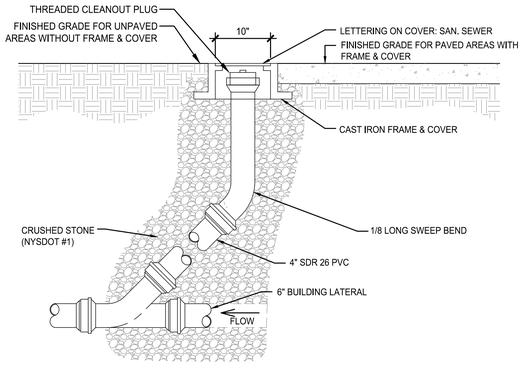
11 WATER SERVICE CONNECTION

Scale: NTS



12 QUICK COUPLER VALVE

Scale: NTS



13 SANITARY CONNECTION AT GRADE

Scale: NTS

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 4304S
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP, Landscape Architecture & Engineering, P.C., Poughkeepsie, New York

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

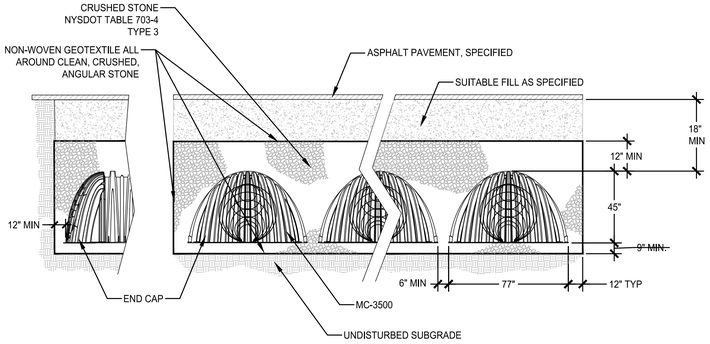
HIGH SCHOOL SBL# 50-02-01-06-0-016-000
PRESS BOX - SEPTIC SBL# 50-02-01-06-7-001-001
PRESS BOX - BACKFILL SBL# 50-02-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

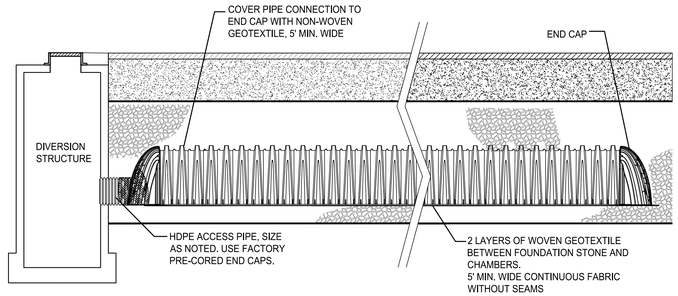
Drawing Title: UTILITY DETAILS

Drawing No. C-720 of X



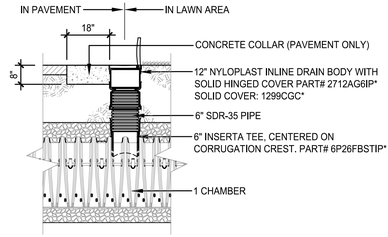
1 UNDERGROUND INFILTRATION CHAMBERS

SCALE: NTS



2 ISOLATOR ROW DETAIL

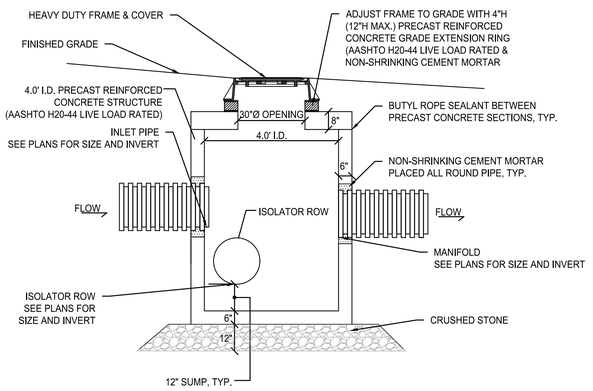
SCALE: NTS



* THE PART# 2712AG6IPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

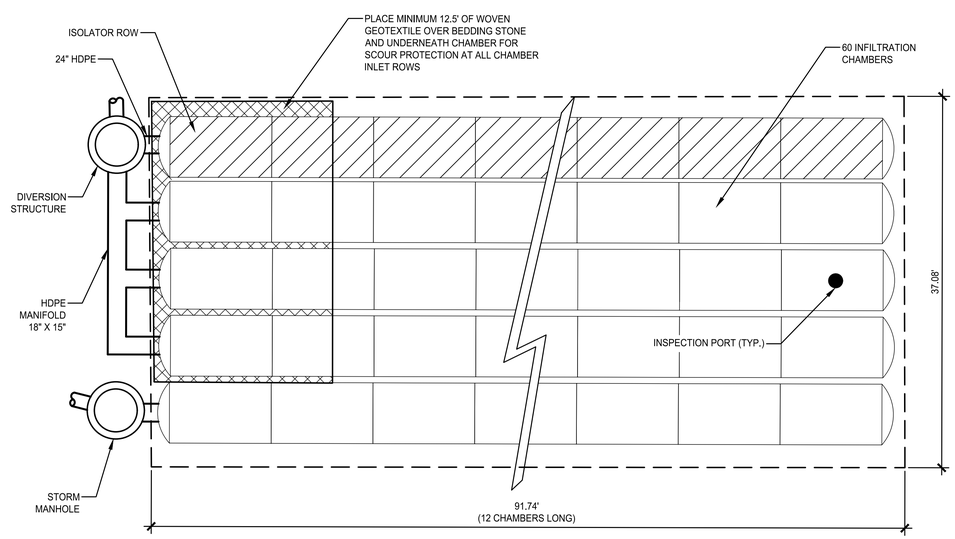
3 INSPECTION PORT

SCALE: NTS



4 DIVERSION STRUCTURE

SCALE: NTS



PROPOSED ELEVATIONS

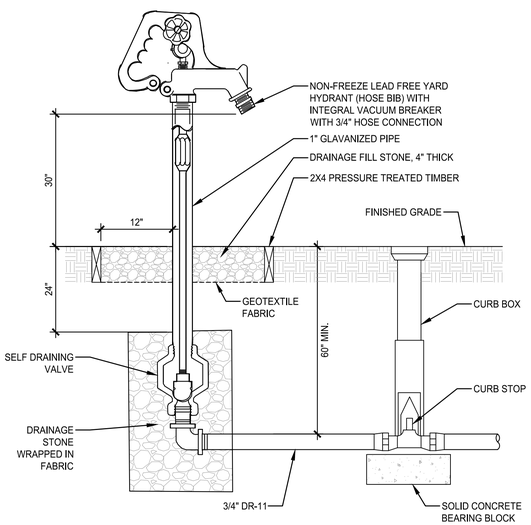
TOP OF STONE:	270.60'
TOP OF CHAMBER:	269.60'
15" MANIFOLD INVERT:	267.80'
24" INVERT TO ISOLATOR ROW:	266.02'
BOTTOM OF CHAMBER:	265.85'
BOTTOM OF STONE:	265.10'

5 UNDERGROUND CHAMBERS 'SMP-1'

SCALE: NTS

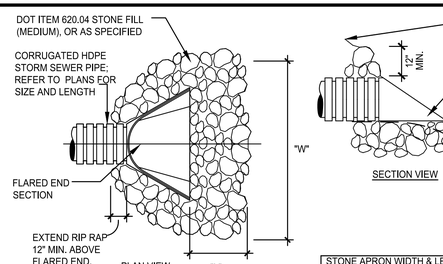
7 DRY WELL

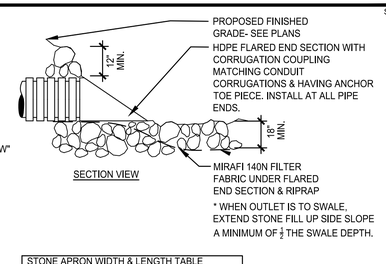
SCALE: NTS



6 YARD HYDRANT

SCALE: NTS



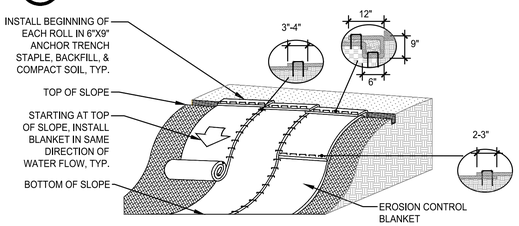


* WHEN OUTLET IS TO SWALE, EXTEND STONE FILL UP SIDE SLOPE A MINIMUM OF ½ THE SWALE DEPTH.

STONE APRON WIDTH & LENGTH TABLE		
PIPE DIA	WIDTH "W"	MIN. LENGTH "L"
12"	7'-0"	8'-0"
15"-18"	8'-0"	6'-0"
24"	9'-0"	8'-0"
30"	10'-0"	10'-0"
36"	12'-0"	15'-0"
48"	15'-0"	20'-0"

8 FLARED END SECTION

SCALE: NTS



MANUFACTURER'S INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING MATTING INCLUDING APPLICATION OF HYDROSEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MATTING IN A 9" DEEP BY 6" WIDE TRENCH. ANCHOR THE MATTING WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF MATTING BACK OVER THE SEED AND COMPACTED SOIL. SECURE THE MATTING OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE MATTING.
3. ROLL THE MATTING DOWN THE SLOPE. THE MATTING WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL MATTING MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE MANUFACTURER'S STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL MATTING SHEETS MUST BE STAPLED WITH APPROXIMATELY 3" - 4" OVERLAP DEPENDING ON THE MATTING TYPE.
5. CONSECUTIVE MATTING SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 2"-3" OVERLAP, STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE MATTING WIDTH.

9 EROSION CONTROL MATTING

SCALE: NTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Region Since 1965

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 93-65-01-06-0-016-006
PRESS BOX – SOFTBALL SBL# 93-82-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 93-82-01-06-7-001-001
106 Hammond Rd.
Suffern, NY 10901

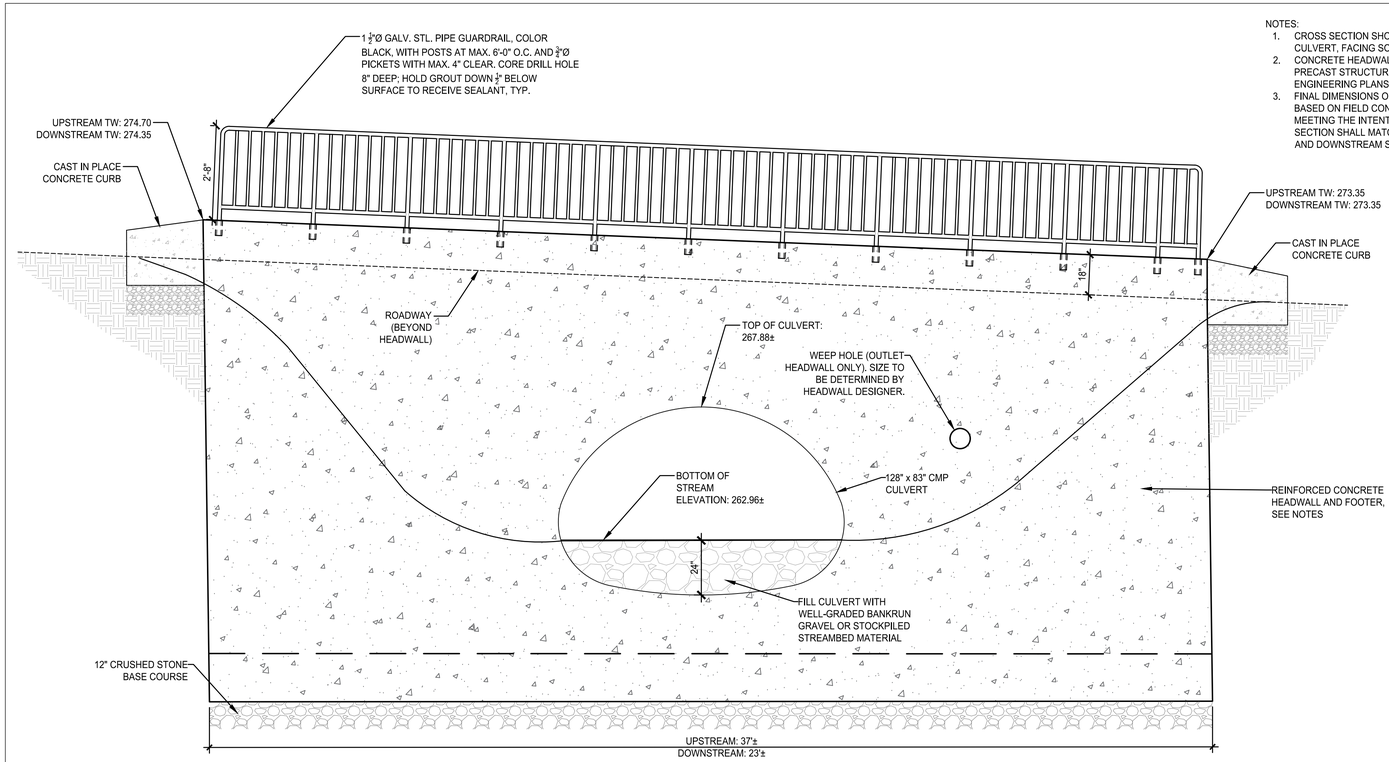
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

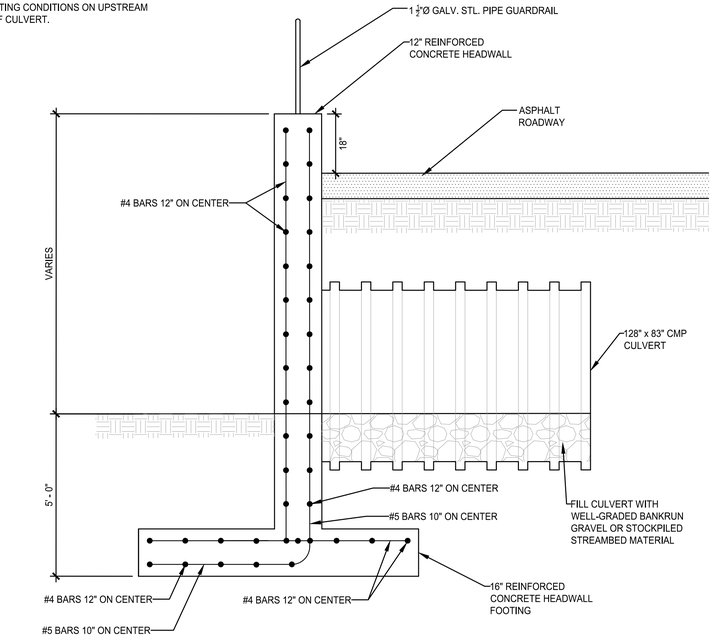
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
UTILITY DETAILS

Drawing No.
C-721
of X

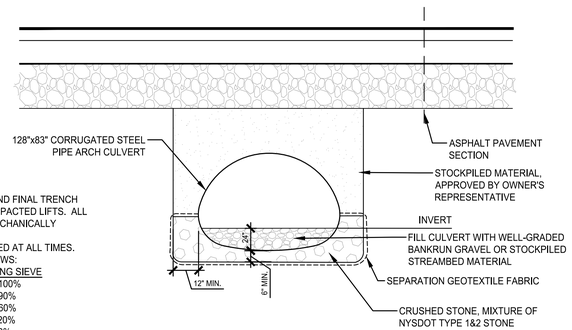


NOTES:
1. CROSS SECTION SHOWN IS THE NORTH SIDE OF THE CULVERT, FACING SOUTH.
2. CONCRETE HEADWALL SHALL BE EITHER CAST-IN-PLACE OR PRECAST STRUCTURE. CONTRACTOR TO PROVIDE STAMPED ENGINEERING PLANS.
3. FINAL DIMENSIONS OF CONCRETE HEADWALL SHALL BE BASED ON FIELD CONDITIONS VERIFIED BY CONTRACTOR, MEETING THE INTENT OF THE DESIGN. STREAM CROSS SECTION SHALL MATCH EXISTING CONDITIONS ON UPSTREAM AND DOWNSTREAM SIDES OF CULVERT.



1 CMP ARCH AND HEADWALL

SCALE: NTS

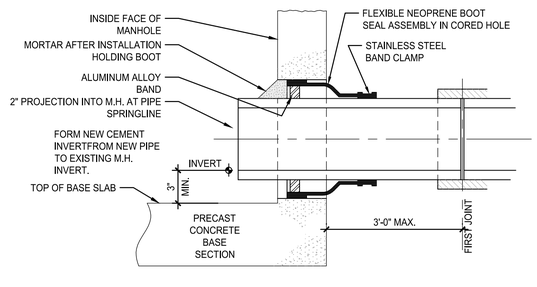


NOTES:
1. ALL PIPE ZONE BEDDING, PIPE ZONE BACKFILL, AND FINAL TRENCH BACKFILL SHALL BE PLACED IN 12 INCH MAX. COMPACTED LIFTS. ALL BEDDING AND BACKFILL MATERIALS SHALL BE MECHANICALLY COMPACTED TO 95% MODIFIED PROCTOR.
2. EXCAVATION SHALL BE KEPT DRY AND DEWATERED AT ALL TIMES.
3. ROUNDED BANKRUN GRAVEL SHALL BE AS FOLLOWS:

STANDARD SIEVE SIZE	PERCENT PASSING SIEVE
8"	90-100%
6"	80-90%
3"	40-60%
3/4"	10-20%
NO.7	5-10%

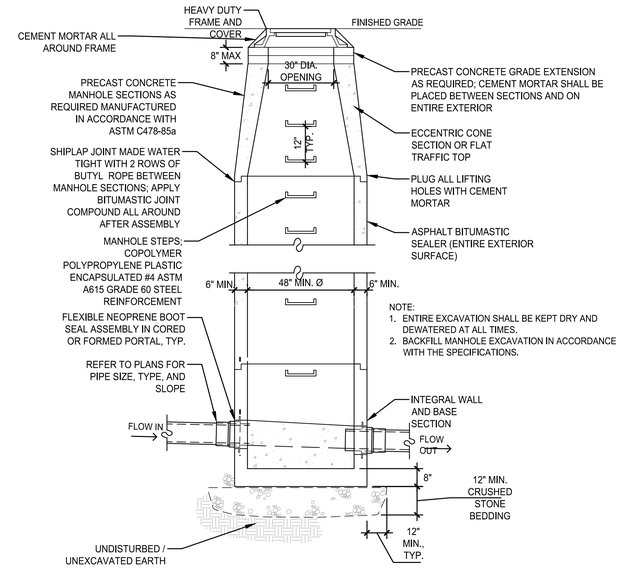
2 CMP CULVERT SECTION

SCALE: NTS



3 CONNECTION TO AN EXISTING STORM STRUCTURE

SCALE: NTS



NOTE:
1. ENTIRE EXCAVATION SHALL BE KEPT DRY AND DEWATERED AT ALL TIMES.
2. BACKFILL MANHOLE EXCAVATION IN ACCORDANCE WITH THE SPECIFICATIONS.

4 SANITARY MANHOLE

SCALE: NTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

Landscape Architect & Civil Engineer: The LA GROUP Landscape Architecture & Engineering, P.C. Serving the Region Since 1965

Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 80-02-01-00-0-016-006
PRESS BOX – SOFTBALL SBL#: 80-02-01-00-7-000-001
PRESS BOX – BASEBALL SBL#: 80-02-04-00-7-001-001
106 Hammond Rd.
Thiells, NY 10984

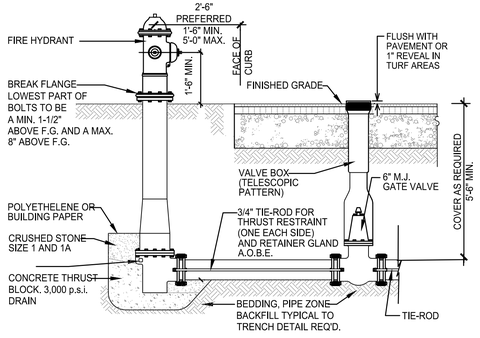
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

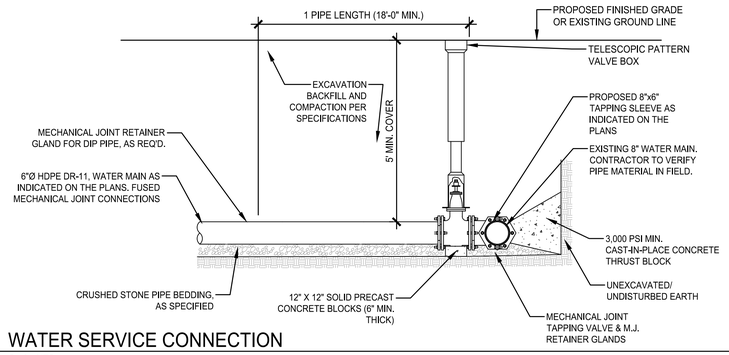
Drawing Title: UTILITY DETAILS

Drawing No. C-722 of X



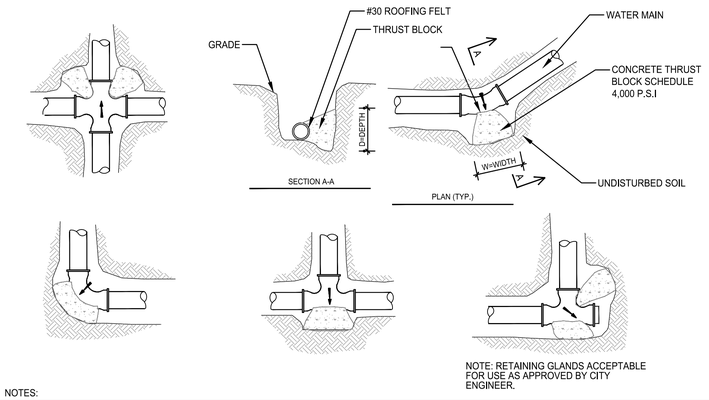
1 FIRE HYDRANT DETAIL

Scale: NTS



2 WATER SERVICE CONNECTION

Scale: NTS



NOTE: RETAINING GLANDS ACCEPTABLE FOR USE AS APPROVED BY CITY ENGINEER.

NOTES:

1. FOR REQUIRED BEARING AREA AND DIMENSIONS L AND D, SEE SCHEDULE BELOW. VALUES OF L AND D OTHER THAN THOSE SHOWN IN THE TABLE MAY BE USED PROVIDED THEY YIELD A BEARING AREA EQUAL TO OR LARGER THAN THAT REQUIRED.
2. CONCRETE NOT TO OVERLAP ANY JOINT.
3. CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.
5. APPROXIMATE VOLUME OF CONCRETE THRUST BLOCK:

$$V\pm = \frac{LD\,(W + I.D.)}{81} - I.D.$$

WHERE:

V = VOLUME IN CUBIC YARDS
L = LENGTH OF BLOCK IN FEET
D = DEPTH OF BLOCK IN FEET
W = WIDTH OF BLOCK IN FEET
I.D. = INSIDE DIAMETER OF PIPE IN FEET

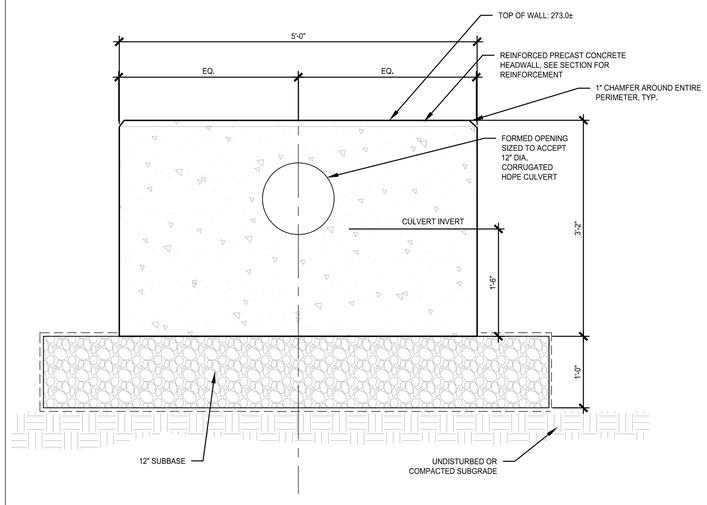
6. REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 p.s.i. (MEDIUM CLAY) WITH A SAFETY FACTOR OF 1.7. PRESSURE OF FLUID FLOW IS BASED ON A 300' HEAD.
7. IN MUCK, PEAT OR RECENTLY PLACED FILL ALL THRUST SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUSTS, ALL AS REQUIRED BY THE OWNERS REPRESENTATIVE.

REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS

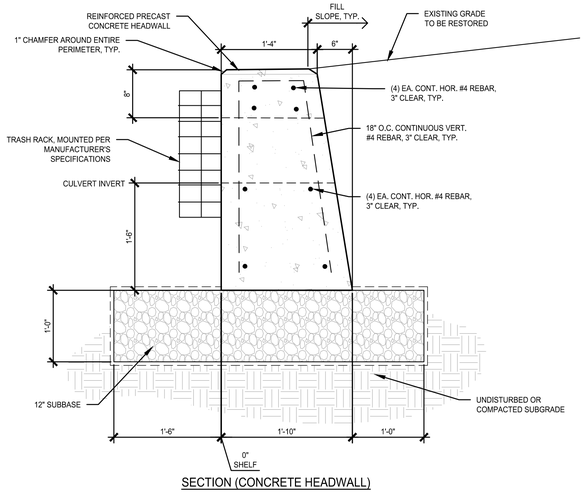
	TEE		90° (1/4) BEND		45° (1/8) BEND		22-1/2° (1/16) BEND		11-1/4° (1/32) BEND	
PIPE SIZE INCHES	AREA SQ. FT.	DIMENSIONS D x L	AREA SQ. FT.	DIMENSIONS D x L	AREA SQ. FT.	DIMENSIONS D x L	AREA SQ. FT.	DIMENSIONS D x L	AREA SQ. FT.	DIMENSIONS D x L
4	1.4	1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.5	.6	.5 x 1.5	0.3	0.5 x 1.0
6	3.2	1.5 x 2.5	4.5	2.0 x 2.5	2.4	1.5 x 2.0	1.2	1.0 x 1.5	0.6	0.5 x 1.5

4 THRUST BLOCK DETAIL

Scale: NTS



ELEVATION (CONCRETE HEADWALL)



SECTION (CONCRETE HEADWALL)

3 CONCRETE HEADWALL

SCALE: NTS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	9/03/24	BIDDING DOCUMENTS

Drawn by
Checked by
Project No. 43045
Scale AS NOTED
Date 10/30/2023

The LA GROUP
Landscape Architecture & Engineering, P.C.
Serving the Region Since 1966

Landscape Architect & Civil Engineer:
Structural Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-08-0-010-008
PRESS BOX – SOFTBALL SBL# 50-02-01-08-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-08-7-001-001
106 Hammond Rd.
Pomona, NY 10970

TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
UTILITY DETAILS

Drawing No.
C-723
of X.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

POWER AND SYSTEMS LEGEND:

— PNL-1	"PNL" INDICATES PANEL DESIGNATION, "1" INDICATES CIRCUIT NUMBER. CIRCUIT WIRE SHALL BE MINIMUM 2#12 THHN/THWN IN 3/4" CONDUIT, U.O.I. COMPUTER CIRCUIT SHALL ALSO BE PROVIDED WITH A SEPARATE NEUTRAL
	LIGHTING AND POWER PANEL BOARD, FLUSH MOUNTED IN WALL WITH COVER.
	LIGHTING AND POWER PANEL BOARD, SURFACE MOUNTED ON WALL.
	SAME AS ABOVE BUT WITH GUTTER TAP.
	WIRING TROUGH/SPLICE BOX, SIZE AS REQUIRED.
$_{a}$	SINGLE POLE TOGGLE LINE-VOLTAGE SWITCH MOUNTED AT 48" A.F.F. SUBSCRIPT DENOTES LIGHTING FIXTURES CONTROLLED 'K' INDICATES KEY OPERATED SWITCH '3' INDICATES THREE-WAY SWITCH 'VS' INDICATES INTEGRATED OCCUPANCY SENSOR (IN VACANCY MODE). 'OC' INDICATES INTEGRATED OCCUPANCY SENSOR 'PL' INDICATES WITH PILOT LIGHT SWITCH 'LT' INDICATES LIGHTED SWITCH 'a' INDICATES LIGHTING FIXTURES CONTROL "PB" INDICATES PUSHBUTTON CONTROL 'e' INDICATES CONTROL OF EMERGENCY LIGHTING FIXTURE WITHIN THE ROOM OR SPACE INDICATED. REFER TO LIGHTING DWGS FOR LOCATION OF SWITCHES.
$_{La}$	LOW VOLTAGE PUSHBUTTON SWITCH MOUNTED AT 48" A.F.F. SUBSCRIPT INDICATES LIGHTING FIXTURES CONTROL.
$_{D}$	LOW VOLTAGE SWITCH 'D' DENOTE A FOUR BUTTON SWITCH WITH ONE MANUAL "ON" BUTTON AND THREE OVER-RIDE PUSH BUTTONS PROGRAMMED TO "OFF, RAISE AND LOWER". U.O.I.
Φ^{F}	DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A, 125V. (NEMA 5-20R) MOUNTED 18" A.F.F. U.O.I. SUBSCRIPT "F" INDICATES FURNITURE MOUNTED. SUBSCRIPT "GFI" INDICATES GROUND FAULT INTERRUPTER.
Φ^{S}	QUAD. THREE WIRE GROUNDED RECEPTACLE, 20A, 125V. (NEMA 5-20R) MOUNTED 18" A.F.F. U.O.I. SUBSCRIPTS "F" INDICATES FURNITURE MOUNTED, "S" INDICATES SURGE SUPPRESSOR.
(5)	MOTOR. HORSEPOWER INSCRIBED, PHASES INDICATED BY CIRCUITING.
	CIRCUIT BREAKER.
	FUSED SWITCH, RATING AND FUSING INDICATED.
	UNFUSED SWITCH.
	GROUND
	JUNCTION BOX, SIZE IS REQUIRED.
	DUPLEX DATA OUTLET WITH 2-"RJ45" JACKS. EACH LABELED "DATA". EACH JACK AT WITH A CAT 6 CABLE IN 3/4"C RUN BACK TO CORRESPONDING DATA RACK TELEPHONE ROOM/CLOSETS . OUTLET SHALL BE MOUNTED 18" A.F.F.

LIGHTING LEGEND:

A a	LINEAR SURFACE MOUNTED 1'x4' LED LIGHTING FIXTURE. INSCRIPTION DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTROL.TRIANGLE SHADE INDICATES EMERGENCY LIGHTING.
A a	PENDANT MOUNTED LED LIGHTING FIXTURE, 4' OR 8' LONG. INSCRIPTION DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTROL.TRIANGLE SHADE INDICATES EMERGENCY LIGHTING.
A a	RECESSED MOUNTED DOWN LIGHTING FIXTURE. INSCRIPTION DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTROL.WHEN SHADED INDICATES EMERGENCY LIGHTING.
A	OUTDOOR WALL MOUNTED WEATHER PROOF WALL PACK. LIGHTING FIXTURE INSCRIPTION DENOTES FIXTURE TYPE. WHEN SHADED INDICATES EMERGENCY LIGHTING.
	CEILING OR WALL MOUNTED EXIT SIGNS, NUMBER OF FACES AND ARROWS AS SHOWN ON PLANS. 8'-0" WHERE CEILING HEIGHT ALLOWS A MINIMUM OF 6" CLEARANCE BETWEEN CEILING & TOP LIGHT, OTHERWISE MOUNT EXIT LIGHT SO THAT ITS TOP IS 6" BELOW FINISHED CEILING. ADJUST HEIGHT & CLEARANCES AS REQUIRED TO SUIT INSTALLATION OVER DOORS.
VS OL	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR, AUTOMATIC 'ON'/'OFF' .

SITE WORK LEGEND:

	NEW CONDUIT WITH CABLES. REFER TO DRAWINGS FOR SIZE OF CONDUIT AND CABLES
	ATHLETIC FIELD POLE WITH LED LUMINAIRES. FOR POLE HEIGHT AND LUMINAIRE REFER SCHEDULE.
	ELECTRICAL GROUNDING
	FURNISH AND INSTALL 24"X18"X30" UNDERGROUND ROADWAY TYPE ELECTRIC PULLBOX WITH CAST IRON FRAME AND COVER WITH LABEL "ELECTRIC". FRAME AND COVER SHALL BE FLUSH WITH GRADE, UNLESS OTHERWISE INDICATED ON DRAWINGS.
	FURNISH & INSTALL UNDERGROUND ROADWAY TYPE FIBER/COMMUNICATIONS PULLBOX WITH CAST IRON FRAME AND COVER WITH LABEL "FIBER". FRAME AND COVER SHALL BE FLUSH WITH GRADE. SIZE 24"(L)X18"(W)X30"(D) U.O.I.
30 / 2 U — SWITCH RATING; FUSE SIZE ("U" IF UNFUSED); POLES	POLE MOUNTED DISCONNECT SWITCH, RATING AND FUSING AS NOTED. 'WP' INDICATES WEATHERPROOF NEMA 3R ENCLOSURE, OTHERWISE.
G	FURNISH AND INSTALL COPPER WELDED GROUND ROD IN A BOX
AF-01	FURNISH AND INSTALL ALUMINIUM TAG ON LAMPPOST/LIGHT POLE.
	NEW PANEL, SURFACE MOUNTED
J	ELECTRICAL JUNCTION BOX
WP	DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A, 125V, WITH 2 USB OUTLETS. (NEMA 5-20R) WITH "GFI" GROUND FAULT INTERRUPTER STANCHION MOUNTED WEATHERPROOF OUTLET. LEGRAND OUTDOOR POWER PEDESTAL WITH HINGED COVER.
	POLE AND LUMINAIRE PURCHASED BY OWNER INSTALLED BY THIS CONTRACTOR. FOUNDATION FOR POLE AND LUMINAIRE TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
	FURNISH AND INSTALL NEW LUMINAIRE ON 25' POLE ON CONCRETE FOUNDATION ALONG WITH ALL ACCESSORIES AND FITTINGS. REFER TO LUMINAIRE SCHEDULE
S-L	FURNISH AND INSTALL NEW PARKING LOT LUMINAIRE ON 18' POLE ON CONCRETE FOUNDATION ALONG WITH ALL ACCESSORIES AND FITTINGS. REFER TO LUMINAIRE SCHEDULE
U	EXISTING UTILITY POLE

ABBREVIATIONS

A	AMPERE	KWH	KILOWATT HOUR
AC	ALTERNATING CURRENT	LP	LIGHTING PANEL
ACCU	A/C CONDENSING UNIT	LS	LOUDSPEAKER
AF	FUSE RATING IN AMPS	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MER	MECHANICAL EQUIPMENT ROOM
ARCH	ARCHITECTURAL	MIC	MICROPHONE
AS	SWITCH RATING IN AMPS	MLO	MAIN LUG ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
A/C	AIR CONDITIONING	N	NEUTRAL
C	CONDUIT	N.C.	NORMALLY CLOSED
CB	CIRCUIT BREAKER	N.O.	NORMALLY OPEN
CLG	CEILING	P	POLE(S)
CKT(S)	CIRCUIT(S)	PB	PULL BOX
COL	COLUMN	PNL	PANEL
DHWH	DOMESTIC HOT WATER HEATER	PPP	PORT PATCH PANEL
DSP	DUPLEX SUMP PUMP	POS	POINT OF SALE
DWBS	DUPLEX WATER BOOSTER PUMP	PP	POWER PANEL
DWG	DRAWING	PWR	POWER
E	EXISITNG TO REMAIN	RC	REMOTE CONTROL
ER	EXISITNG TO BE REMOVED	REL	RELOCATED
ERR	EXISITNG TO BE RELOCATED	RGC	RIGID GALVANIZED CONDUIT
EC	EMPTY CONDUIT	RTU	ROOF TOP UNIT
ECC	ELECTRIC CABINET CONVECTOR	SECT	SECTION
ECH	ELECTRIC CABINET HEATER	SP	SPARE
EF	EXHAUST FAN	SPF	SMOKE PURGE FAN
EMR	ELEVATOR MECHANICAL ROOM	SPR	SPARE
EUH	ELECTRIC UNIT HEATER	STD	STANDARD
EXH	EXHAUST	SUR	SURFACE
FL	FLOOR	SW	SWITCH
GND	GROUND	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
IG	ISOLATED GROUND	UOI	UNLESS OTHERWISE INDICATED
JB	JUNCTION BOX	V	VOLT
KVA	KILOVOLT AMPERE	W	WATT
KW	KILOWATT	WP	WEATHER PROOF

NOTE - ALL THE ABOVE ABBREVIATIONS MAY NOT BE USED

GENERAL NOTES:

1. FOR AN EXPLANATION OF ABBREVIATIONS AND SYMBOLS USED ON THESE DRAWINGS, SEE THE ABBREVIATION LIST AND SYMBOLS LIST ON THIS SHEET.
2. THE CONTRACTOR SHALL CHECK THE LOCATION, NUMBER AND SIZE OF ALL CHASES PROVIDED ON THE CONSTRUCTION PLANS AND ARRANGE FOR ANY CHASES REQUIRED FOR CABINET OR BOXES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE HVAC, PLUMBING, ARCHITECTURAL AND STRUCTURAL TRADES FOR EXACT LOCATIONS OF MOTORS AND EQUIPMENT, IN ORDER TO AVOID INTERFERENCE.
4. IN UNFINISHED PORTIONS OF THE BUILDING, SUCH AS BOILER ROOM, FAN ROOMS, PIPE SPACES, ETC., LOCATIONS OF CONDUIT AND OUTLETS ARE APPROXIMATE AND SHALL CLEAR PIPING AND ALL OTHER CONSTRUCTION. CONDUIT IN THESE PORTIONS OF THE BUILDING SHALL BE RUN EXPOSED.
5. NO CONDUIT SHALL BE RUN IN ANY FLOOR IN CONTACT WITH THE EARTH UNLESS OTHERWISE DIRECTED ON THE PLAN. IN SUCH AREAS, CONDUIT FOR MOTORS AND STARTERS SHALL BE RUN OVERHEAD, SUPPORTED AS REQUIRED.
6. PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN UNFINISHED AREAS AND FLUSH TYPE IN FINISHED AREAS (AT NEW WALLS/PARTIONS), UNLESS OTHERWISE NOTED. THE JUNCTION AND PULL BOXES SHALL BE LOCATED TO SUIT CONDUIT ENTRANCE. BUT SHALL, IN ALL CASES, BE LOCATED TO AVOID INTERFERENCE WITH EQUIPMENT FROM OTHER TRADES AND SHALL BE LOCATED SO THAT COVERS ARE READILY ACCESSIBLE.
7. WHERE RECESSED FIXTURES ARE INDICATED ON THESE PLANS AND WET PLASTER CEILING CONSTRUCTION IS USED, PLASTER FRAMES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR WITH OTHER TYPES OF HUNG CEILING CONSTRUCTION. LIGHTING FIXTURES SHALL BE APPROPRIATE TO MEET THE REQUIREMENTS OF THAT CEILING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED ON FLOOR PLANS OR IN FLOOR PLAN NOTES, SWITCHES SHALL BE INSTALLED AT 4'-0" ABOVE FINISHED FLOOR. WHERE SWITCH HEIGHTS ARE GIVEN ON THESE DRAWINGS FOR AREAS IN WHICH THERE ARE TILE WAINSCOTS, SUCH AS TOILETS, LOCKER ROOMS, ETC. THE CONTRACTOR SHALL ADJUST SWITCH HEIGHTS, IF NECESSARY TO AVOID INTERFERENCE WITH THE WAINSCOT.
9. CONTRACTOR SHALL PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS ON NORMAL AND EMERGENCY CIRCUITS.
10. PROVIDE FIRE STOP SEALS TO ALL PENETRATIONS OF ALL EXISTING FLOORS, SLABS, AND WALLS/PATITIONS; AND ALL NEW FIRE RATED WALLS & PARTITIONS.
11. PROVIDE DEFLECTION FITTINGS AT ALL REQUIRED CROSSINGS OF EXPANSION POINTS.
12. ALL CIRCUITS CONTAINING GFI OUTLETS, CKTS FOR COMPUTERS AND/OR PERIPHERALS AND RELATED EQUIPMENT AND CIRCUITS RECOMMENDED BY THE MANUFACTURERS SHALL HAVE A SEPARATE DEDICATED NEUTRAL.
13. PROVIDE COLOR CODING FOR BRANCH CIRCUITS & FEEDERS AS FOLLOWS FOR 120/208V. CONDUCTORS:
    BLACK PHASE "A"
    RED PHASE "B"
    BLUE PHASE "C"
    WHITE NEUTRAL
    GREEN GROUNDING
14. PROVIDE COLOR CODING FOR BRANCH CIRCUITS & FEEDERS AS FOLLOWS FOR 277/480V. CONDUCTORS:
    BROWN PHASE "A"
    ORANGE PHASE "B"
    YELLOW PHASE "C"
    GREY NEUTRAL
    GREEN GROUNDING
15. PLACEMENT OF ALL ELECTRICAL DEVICES MUST BE COORDINATED WITH FURNITURE LAY-OUTS. THE ELECTRICAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SUBMITTING SHOP DWGS FOR LOCATION OF ALL ELECTRICAL DEVICES. THE SHOP DWGS MUST INDICATE THE MOUNTING HEIGHTS & CENTER LINE DISTANCE FROM THE NEAREST COLUMN.
16. ALL COMPONENTS SHOWN ON RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
17. CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS.
18. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL TRADES CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.
19. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICES EXCEPT FOR EXIT SIGNS.
20. RIGID NONMETALLIC CONDUIT (RNMC) SHALL NOT BE INSTALLED WITHIN THE BUILDING FOOTPRINT. UNLESS OTHERWISE INDICATED.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING EACH CKT IN ALL MANHOLES, HAND HOLES, WIRE WAYS & ALL OTHER ENCLOSURES & AT ALL TERMINATION.
22. ALL SERVICE ENTRANCE CONDUITS ARE TO BE PITCHED AS REQUIRED AND SEALED AT THE POINT OF ENTRY TO THE BUILDING IN ORDER TO AVOID WATER PENETRATION TO THE BUILDING THROUGH THESE CONDUITS.
23. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENTS, DEVICES SHALL BE COORDINATED AT FIELD WITH ALL OTHER TRADES AND WITH EXISTING BUILDING ELEMENTS, PIPES, EQUIPMENTS, DEVICES ETC. IN ORDER TO HAVE CODE COMPLIANT INSTALLATION.
24. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES AND EXISTING BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENTS, & DEVICES ETC. FOR CODE COMPLIANT INSTALLATION.
25. THE ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE WITH THE MECHANICAL CONTRACTOR DURING THE MECHANICAL EQUIPMENT SUBMITTAL REVIEW PROCESS IN ORDER TO VERIFY THE REQUIREMENT OF INSTALLING NEUTRAL WIRE IN THE CONDUIT TO FEED ALL HVAC EQUIPMENT SUCH AS ROOF TOP UNIT PRIOR TO INSTALLATION OF THE WIRES IN CONDUIT.
26. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OTHER TRADES AT FIELD SO THAT NO FOREIGN SYSTEM SUCH AS PIPING, DUCT, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE RUN OVER THE ELECTRICAL EQUIPMENT INSTALLATION.
27. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE RESIDENT ENGINEER, ALL OTHER TRADES AND THE FACILITY.
28. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
29. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION/CONSTRUCTION WORK.
30. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE ATHLETIC FIELD AND ALL OTHER ELECTRICAL EQUIPMENT (INCLUDING THE STORAGE ROOM) DURING DEMOLITION AND CONSTRUCTION. ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE THIS REQUIREMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
31. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
32. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS AND THE NATIONAL ELECTRIC CODE (NEC).
33. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE SERVICE, EQUIPMENT AND THE LIGHTING POLE AS REQUIRED.
34. ALL FIBER/COMMUNICATION, SPEAKER AND POWER CONDUITS MUST BE RUN 24" BELOW GRADE. U.O.I.
35. ALL CONDUITS OUTSIDE THE BUILDING FOOT PRINT SHALL BE PVC SCH. 40, CONDUITS INSIDE THE PRESSBOX SHALL BE EMT AND CONDUITS INSIDE THE DUGOUTS SHALL BE RGC, UNLESS OTHERWISE INDICATED.
36. ALL OUTDOOR CONDUITS SHALL RUN 24" BELOW GRADE. CABLES IN OUTDOOR CONDUITS SHALL BE TYPLE XLPE.
37. AT TRANSITION POINTS BETWEEN INDOOR AND OUTDOOR CONDUITS PROVIDE ADAPTER FITTINGS TO CONVERT THHN TO TYPLE XLPE CABLES AND EMT TO PVC/RGC CONDUIT.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL SYMBOLS, GENERAL NOTES, SCHEDULES AND ABBREVIATIONS

Drawing No.
CE-001

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 — 1/2 — 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	DK
Checked by	SH
Project No.	43045
Scale	AS NOTED
Date	09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN INC
17 JOHNSTON ROAD, 3RD FLOOR
SUITE 202, SUFFERN, NY 10901

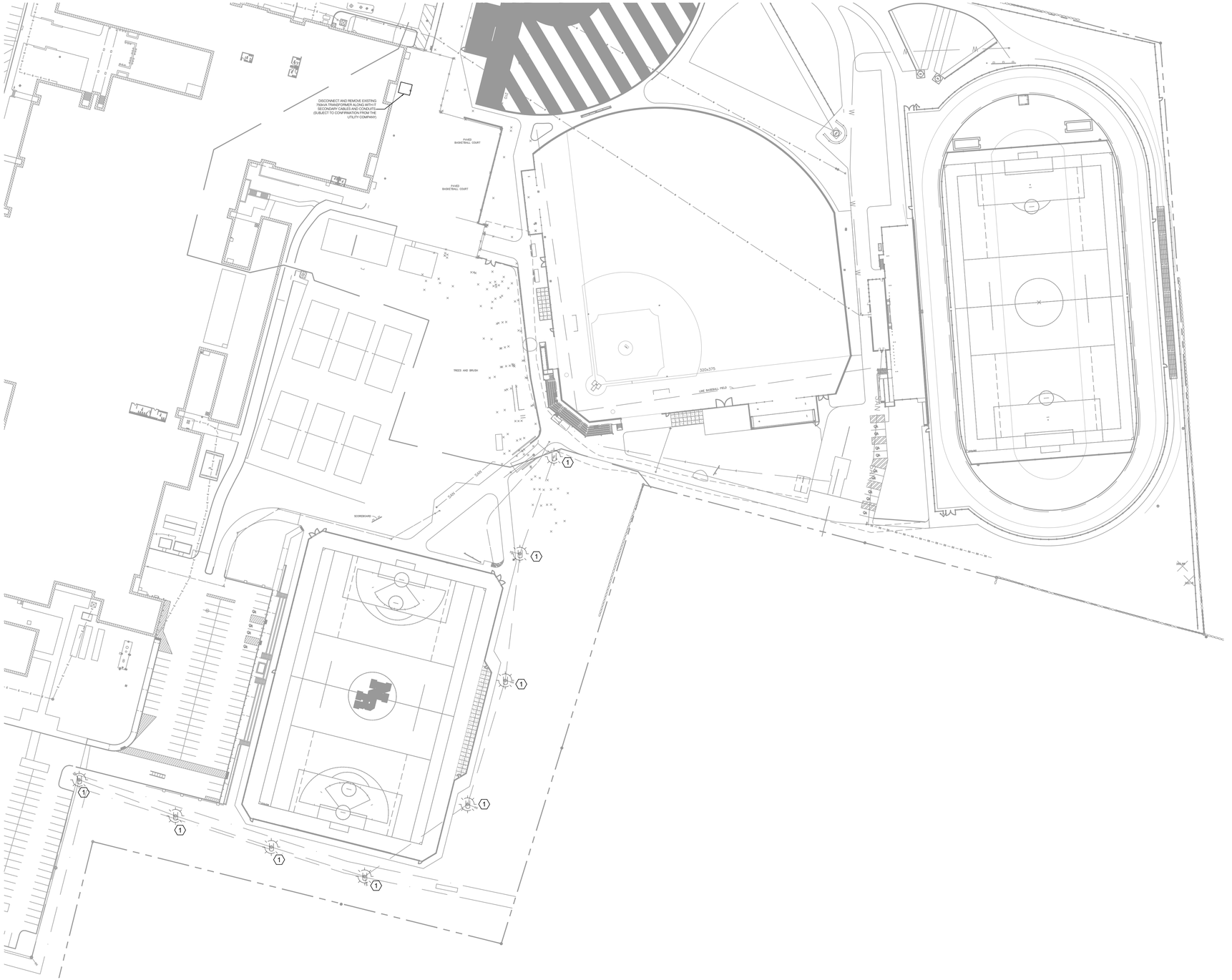
NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBM 50-02-01-06-0-016-026
PRESS BOX - SOFTBALL SBM 50-02-01-06-7-001-001
PRESS BOX - BASEBALL SBM 50-02-01-06-7-001-001

190 Hammond Rd.
Toledo, NY 10964

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com



1 ELECTRICAL SITE AND SERVICES REMOVAL PLAN

SCALE: 1/64" = 1' 0"

DEMOLITION NOTES:

1. FOR ELECTRICAL SYMBOLS & LEGENDS, GENERAL NOTES AND ABBREVIATIONS DRAWING LIST REFER TO DWG. CE-001.00
2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
3. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE SCHOOLS FIELD REPRESENTATIVE AND THE FACILITY.
4. COORDINATE REMOVAL OF POLES WITH O&R AND VERIZON (OR TELECOM COMPANY) EQUIPMENT WITH THE RESPECTIVE CONTRACTOR.
5. CONTRACTOR MUST FIELD VERIFY ALL CONNECTIONS PRIOR TO REMOVAL. PROTECT ALL FEEDER AND BRANCH CIRCUITS SERVING OTHER AREAS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY OUTAGES.

KEYED NOTES:

1. REMOVE EXISTING POLES WITH ATTACHMENTS ONLY AFTER COORDINATING WITH UTILITY COMPANY (ELECTRIC AND TELECOM)

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer: **THE LA GROUP**
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: **GREENMAN PEDERSEN, INC**
677 BROADWAY ALBANY, NY 12207
SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SPED# 50-02-01-06-0-010-036
PRESS BOX – SOFTBALL SPED# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SPED# 50-02-01-05-7-001-001

190 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9500
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL SITE AND SERIVCES REMOVAL PLAN

Drawing No.
CE-002

PLAN NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH SBU, ALL OTHER TRADES AND THE FACILITY.
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY CONSTRUCTION WORK.
4. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE SITE AND ALL OTHER ELECTRICAL EQUIPMENT DURING DEMOLITION/CONSTRUCTION. ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE THIS REQUIREMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
5. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
6. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS & THE NATIONAL ELECTRIC CODE (NEC).
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE CIRCUITS, EQUIPMENT AND CONDUITS AS PER NEC AND SPECIFICATION.
8. ALL UNDERGROUND CONDUITS SHALL BE PVC/RGC AND RUN 24" BELOW GRADE UNLESS OTHERWISE INDICATED.
9. ALL SPARE CONDUITS SHALL BE INSTALLED WITH DRAG LINES.
10. COORDINATE WITH LANDSCAPE ARCHITECT AND ARCHITECTURAL DRAWINGS FOR SURFACE RESTORATION AND RESURFACING WORK.
11. THE CONTRACTOR SHALL PROVIDE MAGNETIC WARNING TAPE FOR EACH UNDERGROUND DUCT BANK/CONDUIT.
12. THE CONTRACTOR IS REQUIRED TO USE POLYWATER AFT-AEROSOL FOAM SEALANT OR EQUIVALENT TO SEAL BOTH ENDS OF SERVICE CONDUITS TO FILL THE GAP BETWEEN CABLES AND CONDUIT IN ORDER TO PREVENT ANY WATER PENETRATION THROUGH CONDUITS TO THE ELECTRICAL EQUIPMENT INSIDE THE BUILDING. THE CONDUIT OPENINGS (GAP BETWEEN CABLES AND CONDUIT) SHALL BE SEALED DEEP ENOUGH TO CONFIRM THAT NO WATER INFILTRATION IS TAKING PLACE.
13. ROUTING OF CONDUITS SHALL BE AS PER LANDSCAPE ARCHITECTS DRAWINGS
14. ALL CONDUITS PASSING THROUGH ROADWAYS SHALL BE ENCASED IN MINIMUM 2" THICK CONCRETE
15. ALL CONDUITS SHALL RUN 24" BELOW GRADE, UNLESS OTHERWISE INDICATED.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

1 ELECTRICAL SITE SERVICES PLAN FROM ANNEX BUILDING
SCALE: 1/32" = 1' 0"

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN INC
2 ROBERT SPEIRS PARKWAY
SUITE 202, EAST/ERN, NY 11901

Landscape Architect & Civil Engineer:
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBPH SD-02-01-06-0-016-006
PRESS BOX – SOFTBALL: SBPH SD-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBPH SD-02-01-06-7-001-001

105 Hammond Rd.
Thiells, NY 10984

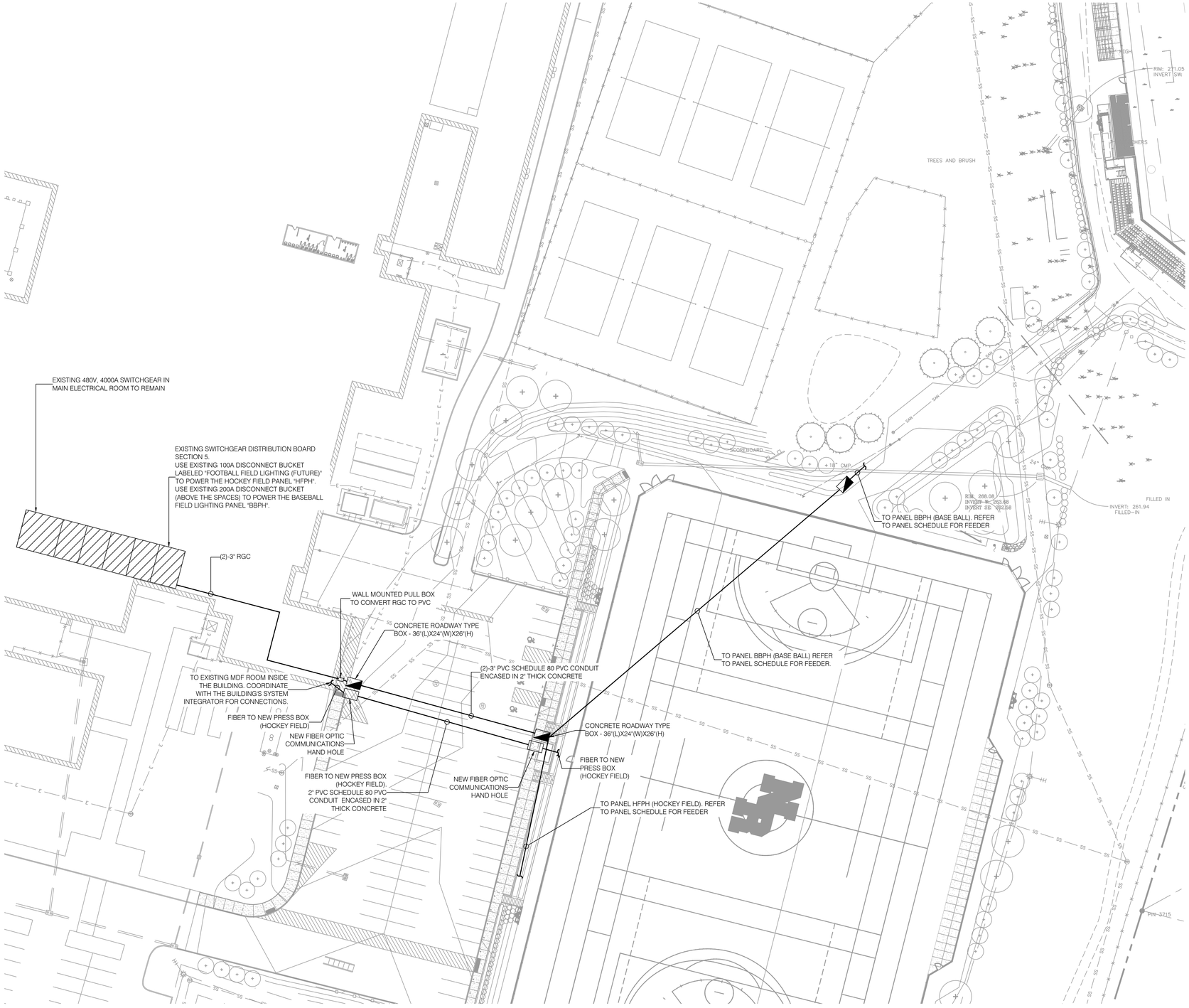
TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL SITE SERVICES PLAN FROM ANNEX BUILDING

Drawing No.
CE-003



1 ELECTRICAL SITE SERVICES PLAN FROM MAIN BUILDING

SCALE: 1/32" = 1' 0"

PLAN NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH SBU, ALL OTHER TRADES AND THE FACILITY.
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY CONSTRUCTION WORK.
4. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE SITE AND ALL OTHER ELECTRICAL EQUIPMENT DURING DEMOLITION/CONSTRUCTION. ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE THIS REQUIREMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
5. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
6. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS & THE NATIONAL ELECTRIC CODE (NEC).
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE CIRCUITS, EQUIPMENT AND CONDUITS AS PER NEC AND SPECIFICATION.
8. ALL UNDERGROUND CONDUITS SHALL BE PVC/RGC AND RUN 24" BELOW GRADE UNLESS OTHERWISE INDICATED.
9. ALL SPARE CONDUITS SHALL BE INSTALLED WITH DRAG LINES.
10. COORDINATE WITH LANDSCAPE ARCHITECT AND ARCHITECTURAL DRAWINGS FOR SURFACE RESTORATION AND RESURFACING WORK.
11. THE CONTRACTOR SHALL PROVIDE MAGNETIC WARNING TAPE FOR EACH UNDERGROUND DUCT BANK/CONDUIT.
12. THE CONTRACTOR IS REQUIRED TO USE POLYWATER AFT-AEROSOL FOAM SEALANT OR EQUIVALENT TO SEAL BOTH ENDS OF SERVICE CONDUITS TO FILL THE GAP BETWEEN CABLES AND CONDUIT IN ORDER TO PREVENT ANY WATER PENETRATION THROUGH CONDUITS TO THE ELECTRICAL EQUIPMENT INSIDE THE BUILDING. THE CONDUIT OPENINGS (GAP BETWEEN CABLES AND CONDUIT) SHALL BE SEALED DEEP ENOUGH TO CONFIRM THAT NO WATER INFILTRATION IS TAKING PLACE.
13. ROUTING OF CONDUITS SHALL BE AS PER LANDSCAPE ARCHITECTS DRAWINGS
14. ALL CONDUITS PASSING THROUGH ROADWAYS SHALL BE ENCASED IN MINIMUM 2" THICK CONCRETE
15. ALL CONDUITS SHALL RUN 24" BELOW GRADE, UNLESS OTHERWISE INDICATED.

1 1/2 0

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC.
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
677 BROADWAY, ALBANY, NY 12207
SUITE 202, RIFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBDM# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL: SBDM# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBDM# 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF STATE/TRAP
COUNTY OF ROCKLAND

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
ELECTRICAL SITE SERVICES PLAN FROM MAIN BUILDING

Drawing No.
CE-004

SOFT BALL FIELD POLE/LUMINAIRE SUMMARY						
POLE ID	POLE HEIGHT	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE QUANTITY	TOTAL LOAD	POLE MANUFACTURER	CIRCUIT
A3 & A4	60'	60'	1 TLC-LED-1200	1.17KW	MUSCO	A
		60'	3 TLC-LED-900	2.64KW		A
		16'	1 TLC-LED-575	0.57KW		B
B3 & B4	70'	70'	1 TLC-LED-1500	1.41kW	MUSCO	A
		70'	3 TLC-LED-1200	3.51kW		A
		16'	1 TLC-BT-575	0.57kW		B

CONTROL CIRCUIT SUMMARY					
POLE ID	FULL LOAD AMPERES	CONTACTOR SIZE (A)	CONTACTOR ID	LIGHTING CIRCUIT	VOLTAGE
A3	7.77	30	C1	SBPH-1,3,5	480 V
A4	7.77	30	C2	SBPH-2,4,6	480 V
B3	9.6	30	C3	SBPH-7,9,11	480 V
B4	9.6	30	C4	SBPH-8,10,12	480 V

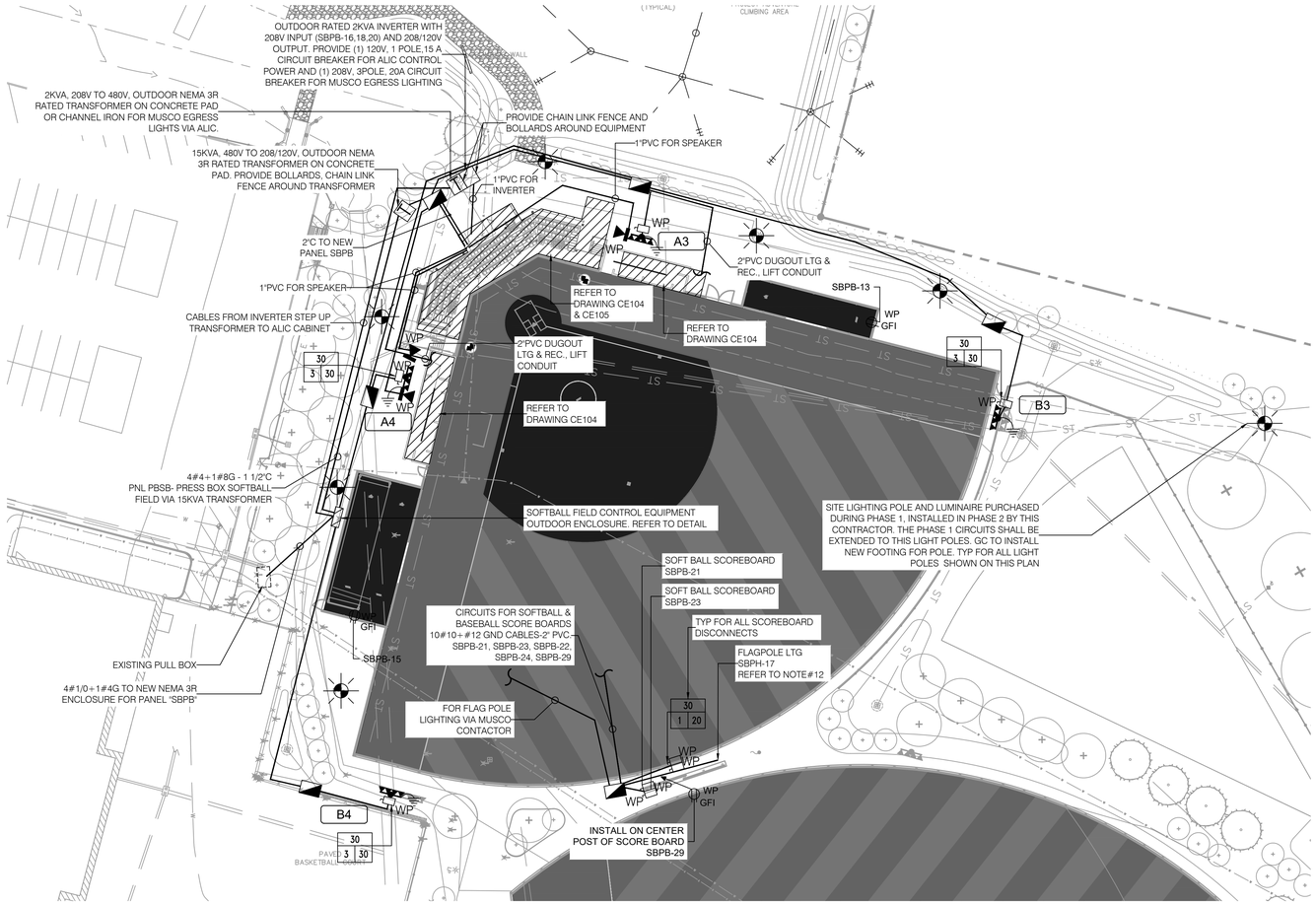
SOFT BALL FIELD SPEAKERS			
SPEAKER	MOUNTING HEIGHT	MANUFACTURER	MODEL #
▼	30'	BIAMP	R.5-96MAX

ELECTRICAL NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE FACILITY
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION/CONSTRUCTION WORK. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE FACILITY AND ALL OTHER ELECTRICAL EQUIPMENT WHICH ARE NOT AFFECTED BY THE CONSTRUCTION.
4. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
5. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS AND THE NATIONAL ELECTRIC CODE (NEC).
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE SERVICE, EQUIPMENT AND THE LIGHTING POLE AS REQUIRED.
7. ROUTE CONDUIT AROUND TREES, PLACE FOOTING FOR POLES OUTSIDE TREE CRITICAL ROOT ZONES.
8. ALL SHOP DRAWING MUST BE SUBMITTED TO THE EOR FOR APPROVAL BEFORE PURCHASE
9. EMERGENCY AND NORMAL CIRCUITS CANNOT RUN IN THE SAME RACEWAY AND PULL BOXES.
10. PROVIDE DRAG WIRE FOR ALL UNDERGROUND CONDUITS.
11. FOR WIRING AND CONDUIT SIZES REFER TO PANEL SCHEDULES.
12. 3 FIXTURES SHALL BE INSTALLED IN-GRADE. FIXTURES SHALL BE OPTICALLY AND MECHANICALLY ADJUSTED ON SITE TO FOCUS ILLUMINATION ON THE FLAG AND FLAG POLE. FIXTURES SHALL BE WITHIN 18" OF THE POLE BASE AND 120 DEGREES APART. MODEL - HYDREL #M9820-B-LED-WHT41K-MVOLT-NSP-FL
13. MOUNTING BRACKET SUPPLIED BY BOGEN SHALL STRAP TO POLE. MUSCO SHALL PROVIDE THREADED COUPLING
14. REFER TO DRAWING E-410 FOR PANEL SCHEDULES
15. ALL FIBER/COMMUNICATION, SPEAKER AND POWER CONDUITS MUST BE RUN 24" BELOW GRADE. U.O.I.
16. ALL CONDUITS OUTSIDE THE BUILDING FOOT PRINT SHALL BE PVC SCH. 40, CONDUITS INSIDE THE PRESSBOX SHALL BE EMT AND CONDUITS INSIDE THE DUGOUTS SHALL BE RGC.
17. ALL OUTDOOR CONDUITS SHALL RUN 24" BELOW GRADE. CABLES IN OUTDOOR CONDUITS SHALL BE TYPLE XLPE.
18. AT TRANSITION POINTS BETWEEN INDOOR AND OUTDOOR CONDUITS PROVIDE ADAPTER FITTINGS TO CONVERT THHN TO TYPLE XLPE CABLES AND EMT TO PVC/RGC CONDUIT.

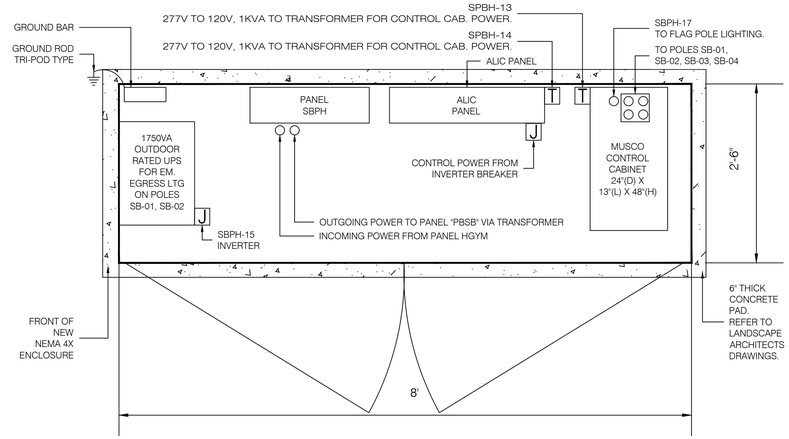
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1



1 ELECTRICAL SOFTBALL FIELD INSTALLATION PLAN

SCALE: 1/32" = 1' 0"



NOTES:

1. ENCLOSURE IN THIS CONTRACT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL SHOP DRAWINGS MUST BE SUBMITTED TO EOR FOR APPROVAL BEFORE PURCHASE.
3. ENCLOSURE SHALL BE NEMA 4X, IP66 RATED.
4. COORDINATE KEY TO OPEN AND CLOSE THE ENCLOSURE WITH NORTH ROCKLAND HIGH SCHOOL'S CUSTODIAN ENGINEER.
5. CUSTOM MADE NEMA ENCLOSURE SHALL BE MANUFACTURED BY NEMA ENCLOSURES, OR APPROVED EQUAL.
6. ENCLOSURE SHALL BE MOUNTED ON A NEW 8" THICK CONCRETE PAD. REFER TO LANDSCAPE ARCHITECTS DRAWINGS.
7. CONTRACTOR SHALL COORDINATE WITH ENCLOSURE MANUFACTURER FOR ALL NECESSARY FITTINGS AND ACCESSORIES TO HOUSE ALL ELECTRICAL EQUIPMENT.
8. REFER TO SCHEMATIC ONE LINE DIAGRAM ON THIS DRAWING FOR SIZES.
9. ALL ELECTRICAL EQUIPMENT SHALL BE SET MINIMUM OF 6" ABOVE THE FINISHED FLOOR/BASE OF THE NEMA ENCLOSURE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
18 COMPUTER DRIVE EAST
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBPH 50-02-01-06-0-010-006
PRESS BOX – SOFTBALL: SBPB 50-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBPB 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

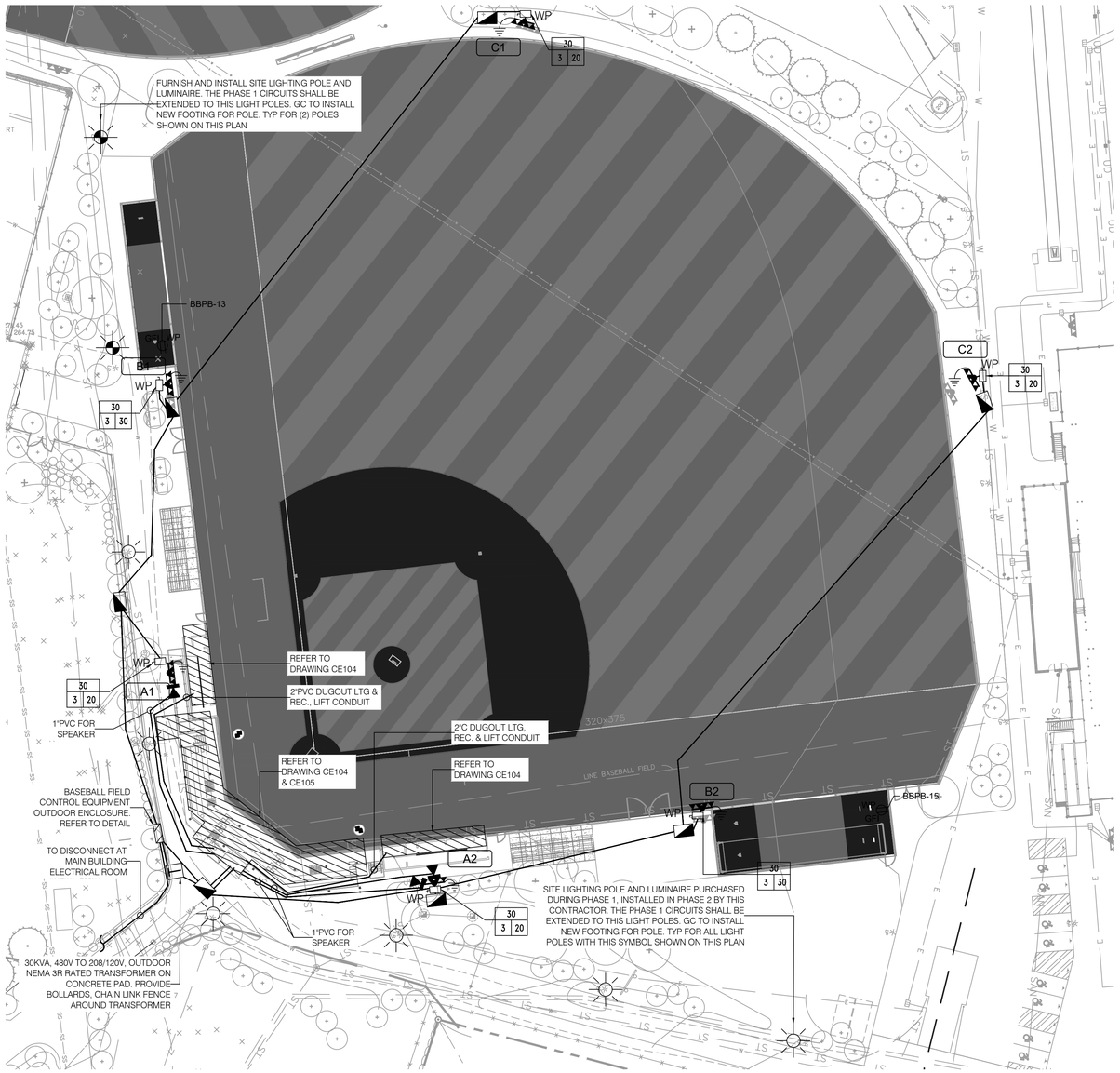
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL
SOFTBALL FIELD
INSTALLATION PLAN

Drawing No.
CE-101

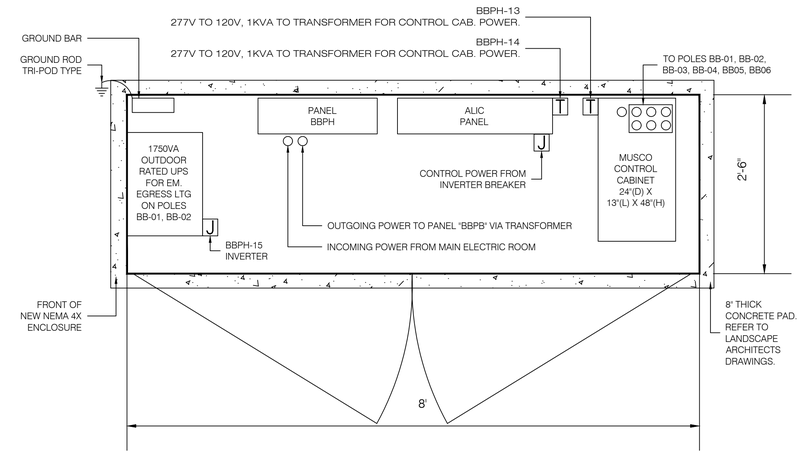


1 ELECTRICAL BASEBALL FIELD INSTALLATION PLAN

SCALE: 1/32" = 1' 0"

ELECTRICAL NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE FACILITY
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION/CONSTRUCTION WORK. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE FACILITY AND ALL OTHER ELECTRICAL EQUIPMENT WHICH ARE NOT AFFECTED BY THE CONSTRUCTION.
4. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
5. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS AND THE NATIONAL ELECTRIC CODE (NEC).
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE SERVICE, EQUIPMENT AND THE LIGHTING POLE AS REQUIRED.
7. ROUTE CONDUIT AROUND TREES, PLACE FOOTING FOR POLES OUTSIDE TREE CRITICAL ROOT ZONES.
8. ALL SHOP DRAWING MUST BE SUBMITTED TO THE EOR FOR APPROVAL BEFORE PURCHASE
9. EMERGENCY AND NORMAL CIRCUITS CANNOT RUN IN THE SAME RACEWAY AND PULL BOXES.
10. PROVIDE DRAG WIRE FOR ALL UNDERGROUND CONDUITS.
11. FOR WIRING AND CONDUIT SIZES REFER TO PANEL SCHEDULES.
12. MOUNTING BRACKET SUPPLIED BY BOGEN SHALL STRAP TO POLE. MUSCO SHALL PROVIDE THREADED COUPLING
13. REFER TO DRAWING E-410 FOR PANEL SCHEDULES
14. ALL FIBER/COMMUNICATION, SPEAKER AND POWER CONDUITS MUST BE RUN 24" BELOW GRADE. U.O.I.
15. ALL CONDUITS OUTSIDE THE BUILDING FOOT PRINT SHALL BE PVC SCH. 40, CONDUITS INSIDE THE PRESSBOX SHALL BE EMT AND CONDUITS INSIDE THE DUGOUTS SHALL BE RGC.
16. ALL OUTDOOR CONDUITS SHALL RUN 24" BELOW GRADE. CABLES IN OUTDOOR CONDUITS SHALL BE TYPLE XLPE.
17. AT TRANSITION POINTS BETWEEN INDOOR AND OUTDOOR CONDUITS PROVIDE ADAPTER FITTINGS TO CONVERT THHN TO TYPE XLPE CABLES AND EMT TO PVC/RGC CONDUIT, UNLESS OTHERWISE INDICATED.



NOTES:

1. ENCLOSURE IN THIS CONTRACT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL SHOP DRAWINGS MUST BE SUBMITTED TO EOR FOR APPROVAL BEFORE PURCHASE.
3. ENCLOSURE SHALL BE NEMA 4X, IP66 RATED.
4. COORDINATE KEY TO OPEN AND CLOSE THE ENCLOSURE WITH NORTH ROCKLAND HIGH SCHOOL'S CUSTODIAN ENGINEER.
5. CUSTOM MADE NEMA ENCLOSURE SHALL BE MANUFACTURED BY NEMA ENCLOSURES, OR APPROVED EQUAL.
6. ENCLOSURE SHALL BE MOUNTED ON A NEW 8" THICK CONCRETE PAD. REFER TO LANDSCAPE ARCHITECTS DRAWINGS.
7. CONTRACTOR SHALL COORDINATE WITH ENCLOSURE MANUFACTURER FOR ALL NECESSARY FITTINGS AND ACCESSORIES TO HOUSE ALL ELECTRICAL EQUIPMENT.
8. REFER TO SCHEMATIC ONE LINE DIAGRAM ON THIS DRAWING FOR SIZES.
9. ALL ELECTRICAL EQUIPMENT SHALL BE SET MINIMUM OF 6" ABOVE THE FINISHED FLOOR/BASE OF THE NEMA ENCLOSURE

2 ELECTRICAL BASEBALL NEMA ENCLOSURE DETAIL

SCALE: NTS

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1

BASEBALL FIELD SPEAKERS

SPEAKER	MOUNTING HEIGHT	MANUFACTURER	MODEL #
▼	30'	BIAMP	R.5-96MAX

CONTROL CIRCUIT SUMMARY

POLE ID	FULL LOAD AMPERES	CONTACTOR SIZE (A)	CONTACTOR ID	LIGHTING CIRCUIT	VOLTAGE
A1	9.6	30	C1	BBPH-1,3,5	480 V
A2	9.6	30	C2	BBPH-2,4,6	480 V
B1	16.43	30	C3	BBPH-7,9,11	480 V
B2	16.43	30	C4	BBPH-8,10,12	480 V
C1	13.83	30	C5	BBPH-25,27,29	480 V
C2	13.83	30	C6	BBPH-26,28,30	480 V

BASE BALL FIELD POLE/LUMINAIRE SUMMARY

POLE ID	POLE HEIGHT	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE QUANTITY	TOTAL LOAD	POLE MANUFACTURER
A1 & A2	70'	70'	1 TLC-LED-1500	1.41KW	MUSCO
		70'	3 TLC-LED-1200	3.51KW	
		16'	1 TLC-BT-575	0.57KW	
B1 & B2	80'	80'	1 TLC-LED-1200	1.17KW	MUSCO
		80'	6 TLC-LED-1500	8.46KW	
		16'	2 TLC-BT-575	1.15kW	
C1 & C2	70'	70'	5 TLC-LED-1500	7.05kW	MUSCO
		16'	2 TLC-BT-575	1.15kW	

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
18 COMPUTER DRIVE EAST
SUITE 202, ALBANY, NY 12065
Structural & MME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBM 50-05-01-06-0-015-009
PRESS BOX – SOFTBALL SBM 50-05-01-06-7-000-00
PRESS BOX – BASEBALL SBM 50-05-01-06-7-001-00

106 Hammond Rd.
Pomona, NY 10994

TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND

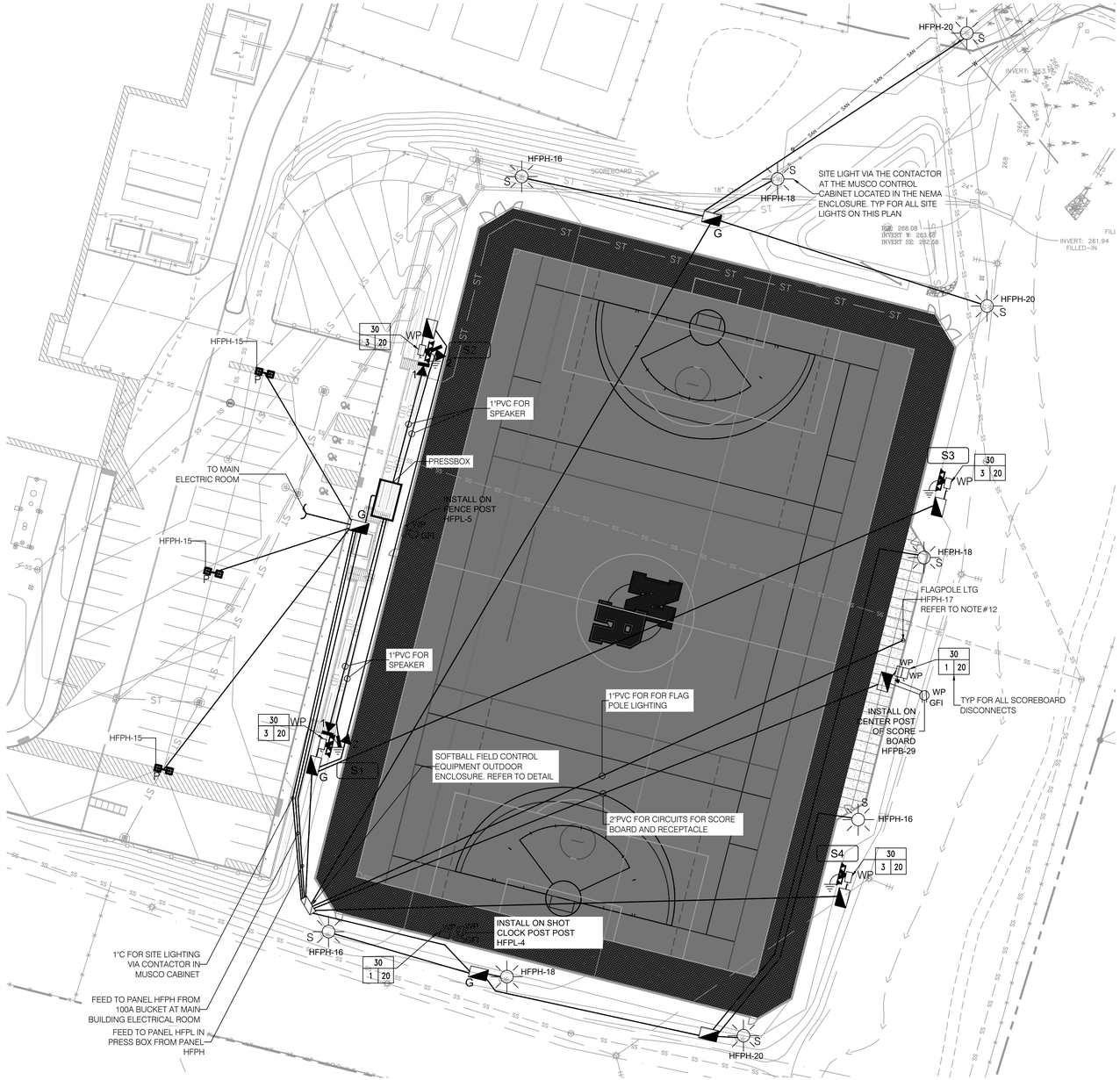
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL BASEBALL FIELD INSTALLATION PLAN

Drawing No.
CE-102

HOCKEY FIELD SPEAKERS			
SPEAKER	MOUNTING HEIGHT	MANUFACTURER	MODEL #
1	30'	BIAMP	R.5-66Z (SIDELINE COVERAGE)
2	30'	BIAMP	R.5-94Z (FIELD COVERAGE)



1 ELECTRICAL HOCKEY FIELD INSTALLATION PLAN
SCALE: 1/32" = 1' 0"

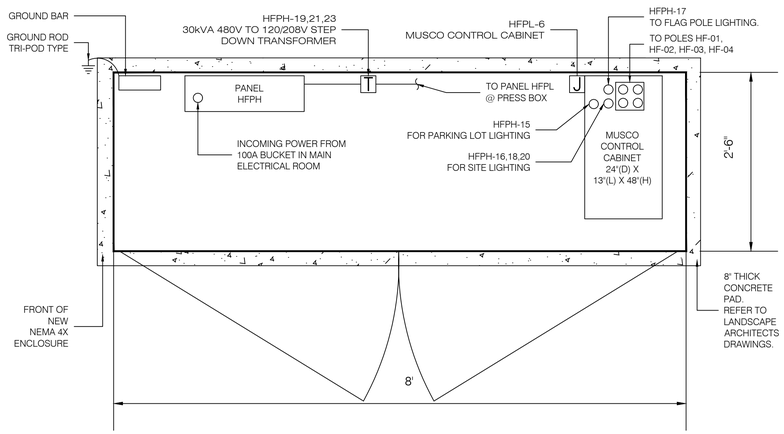
ELECTRICAL NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE FACILITY
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION/CONSTRUCTION WORK. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE FACILITY AND ALL OTHER ELECTRICAL EQUIPMENT WHICH ARE NOT AFFECTED BY THE CONSTRUCTION.
4. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
5. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS AND THE NATIONAL ELECTRIC CODE (NEC).
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE SERVICE, EQUIPMENT AND THE LIGHTING POLE AS REQUIRED.
7. ROUTE CONDUIT AROUND TREES, PLACE FOOTING FOR POLES OUTSIDE TREE CRITICAL ROOT ZONES.
8. ALL SUBMITTALS MUST BE APPROVED BY EOR BEFORE PURCHASE.
9. EMERGENCY AND NORMAL CIRCUITS CANNOT RUN IN THE SAME RACEWAY AND PULL BOXES.
10. PROVIDE DRAG WIRE FOR ALL UNDERGROUND CONDUITS.
11. FOR WIRING AND CONDUIT SIZES REFER TO PANEL SCHEDULES.
12. 3 FIXTURES SHALL BE INSTALLED IN-GRADE. FIXTURES SHALL BE OPTICALLY AND MECHANICALLY ADJUSTED ON SITE TO FOCUS ILLUMINATION ON THE FLAG AND FLAG POLE. FIXTURES SHALL BE WITHIN 18" OF THE POLE BASE AND 120 DEGREES APART. MODEL - HYDREL #M9820-B-LED-WHT41K-MVOLT-NSP-FL
13. REFER TO DRAWING CE-403, CE-404 FOR PANEL SCHEDULES
14. ALL FIBER/COMMUNICATION, SPEAKER AND POWER CONDUITS MUST BE RUN 24" BELOW GRADE. U.O.I.
15. ALL CONDUITS OUTSIDE THE BUILDING FOOT PRINT SHALL BE PVC SCH. 40, CONDUITS INSIDE THE PRESSBOX SHALL BE EMT AND CONDUITS INSIDE THE DUGOUTS SHALL BE RGC.
16. ALL OUTDOOR CONDUITS SHALL RUN 24" BELOW GRADE. CABLES IN OUTDOOR CONDUITS SHALL BE TYPLE XLPE.
17. AT TRANSITION POINTS BETWEEN INDOOR AND OUTDOOR CONDUITS PROVIDE ADAPTER FITTINGS TO CONVERT THHN TO TYPE XLPE CABLES AND EMT TO PVC/RGC CONDUIT, UNLESS OTHERWISE INDICATED.
18. REFER TO SCHEDULES FOR SITE, PARKING LOT LIGHT POLE AND LUMINAIRE.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

CONTROL CIRCUIT SUMMARY					
POLE ID	FULL LOAD AMPERES	CONTACTOR SIZE (A)	CONTACTOR ID	LIGHTING CIRCUIT	VOLTAGE
S1	15.72	30	HC1	HFPH-1,3,5	480 V
S2	15.72	30	HC2	HFPH-2,4,6	480 V
S3	15.72	30	HC3	HFPH-7,9,11	480 V
S4	15.72	30	HC4	HFPH-8,10,12	480 V
FLAG POLE		20	HC5	HFPH-17	277 V
SITE LTG.		20	HC6	HFPH-16, 18, 20	480V, WITH NEUTRAL
PARKING		20	HC7	HFPH-15	277 V

HOCKEY FIELD POLE/LUMINAIRE SUMMARY					
POLE ID	POLE HEIGHT	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE QUANTITY	TOTAL LOAD	POLE MANUFACTURER
S1, S2 S3, S4	70'	70'	7 (TLC-LED-1500)	9.87KW	MUSCO



NOTES:

1. ENCLOSURE IN THIS CONTRACT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL SHOP DRAWINGS MUST BE SUBMITTED TO EOR FOR APPROVAL BEFORE PURCHASE.
3. ENCLOSURE SHALL BE NEMA 4X, IP66 RATED.
4. COORDINATE KEY TO OPEN AND CLOSE THE ENCLOSURE WITH NORTH ROCKLAND HIGH SCHOOL'S CUSTODIAN ENGINEER.
5. CUSTOM MADE NEMA ENCLOSURE SHALL BE MANUFACTURED BY NEMA ENCLOSURES, OR APPROVED EQUAL.
6. ENCLOSURE SHALL BE MOUNTED ON A NEW 8" THICK CONCRETE PAD. REFER TO LANDSCAPE ARCHITECTS DRAWINGS.
7. CONTRACTOR SHALL COORDINATE WITH ENCLOSURE MANUFACTURER FOR ALL NECESSARY FITTINGS AND ACCESSORIES TO HOUSE ALL ELECTRICAL EQUIPMENT.
8. REFER TO SCHEMATIC ONE LINE DIAGRAM ON THIS DRAWING FOR SIZES.
9. ALL ELECTRICAL EQUIPMENT SHALL BE SET MINIMUM OF 6" ABOVE THE FINISHED FLOOR/BASE OF THE NEMA ENCLOSURE

2 ELECTRICAL HOCKEY FIELD NEMA ENCLOSURE DETAIL
SCALE: NTS

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN INC
ENGINEERS & CONSULTANTS
SUITE 202, SUFFERN, NY 10901

Landscape Architect & Civil Engineer:
Structural & MEP Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-69-01-06-0-010-006
PRESS BOX – SOFTBALL: SBL# 50-65-01-06-0-010-001
PRESS BOX – BASEBALL: SBL# 50-65-01-06-0-001-001

106 Hammond Rd.
Thiells, NY 10984

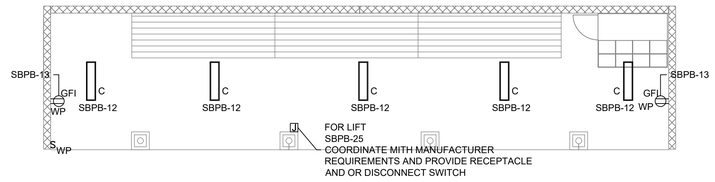
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

HSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-8500
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

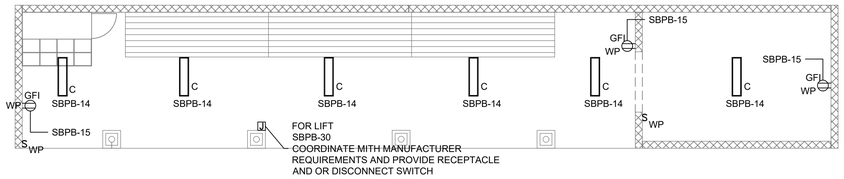
Drawing Title
ELECTRICAL HOCKEY FIELD INSTALLATION PLAN

Drawing No.
CE-103



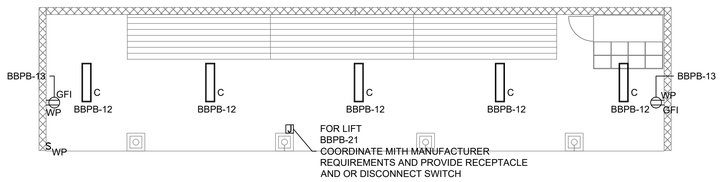
1 ELECTRICAL SOFTBALL DUGOUT INSTALL PLAN-1

SCALE: 1/4" = 1' 0"



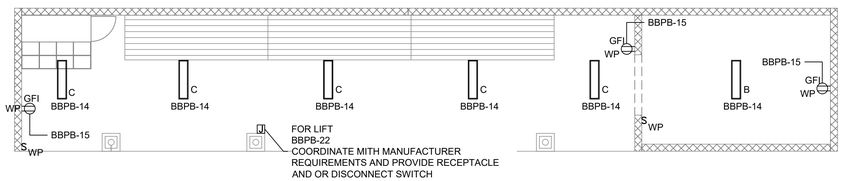
2 ELECTRICAL SOFTBALL DUGOUT INSTALL PLAN-2

SCALE: 1/4" = 1' 0"



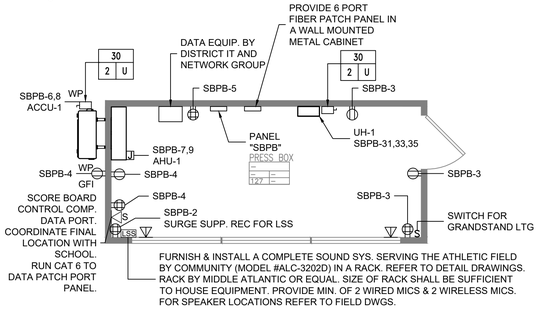
3 ELECTRICAL BASEBALL DUGOUT INSTALLATION PLAN-1

SCALE: 1/4" = 1' 0"



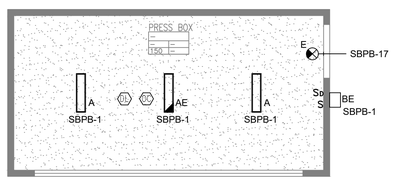
4 ELECTRICAL BASEBALL DUGOUT INSTALLATION PLAN-2

SCALE: 1/4" = 1' 0"



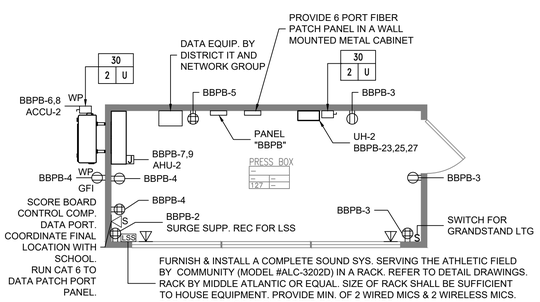
5 SOFTBALL PRESSBOX FLOOR INSTALLATION PLAN

SCALE: 1/4" = 1' 0"



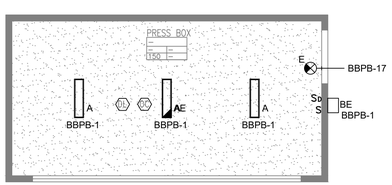
6 SOFTBALL PRESSBOX LIGHTING INSTALLATION PLAN

SCALE: 1/4" = 1' 0"



7 BASEBALL PRESSBOX FLOOR INSTALLATION PLAN

SCALE: 1/4" = 1' 0"



8 BASEBALL PRESSBOX LIGHTING INSTALLATION PLAN

SCALE: 1/4" = 1' 0"

PLAN NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH SBU, ALL OTHER TRADES AND THE FACILITY.
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY CONSTRUCTION WORK.
4. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE SITE AND ALL OTHER ELECTRICAL EQUIPMENT DURING DEMOLITION/CONSTRUCTION. ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE THIS REQUIREMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
5. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
6. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS & THE NATIONAL ELECTRIC CODE (NEC).
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE CIRCUITS, EQUIPMENT AND CONDUITS AS PER NEC AND SPECIFICATION.
8. ALL UNDERGROUND CONDUITS SHALL BE PVC/RGC AND RUN 24" BELOW GRADE UNLESS OTHERWISE INDICATED.
9. ALL SPARE CONDUITS SHALL BE INSTALLED WITH DRAG LINES.
10. COORDINATE WITH LANDSCAPE ARCHITECT AND ARCHITECTURAL DRAWINGS FOR SURFACE RESTORATION AND RESURFACING WORK.
11. THE CONTRACTOR SHALL PROVIDE MAGNETIC WARNING TAPE FOR EACH UNDERGROUND DUCT BANK/CONDUIT.
12. THE CONTRACTOR IS REQUIRED TO USE POLYWATER AFT-AEROSOL FOAM SEALANT OR EQUIVALENT TO SEAL BOTH ENDS OF SERVICE CONDUITS TO FILL THE GAP BETWEEN CABLES AND CONDUIT IN ORDER TO PREVENT ANY WATER PENETRATION THROUGH CONDUITS TO THE ELECTRICAL EQUIPMENT INSIDE THE BUILDING. THE CONDUIT OPENINGS (GAP BETWEEN CABLES AND CONDUIT) SHALL BE SEALED DEEP ENOUGH TO CONFIRM THAT NO WATER INFILTRATION IS TAKING PLACE.
13. ROUTING OF CONDUITS SHALL BE AS PER LANDSCAPE ARCHITECTS DRAWINGS
14. ALL CONDUITS PASSING THROUGH ROADWAYS SHALL BE ENCASED IN MINIMUM 2" THICK CONCRETE
15. ALL CONDUITS SHALL RUN 24" BELOW GRADE, UNLESS OTHERWISE INDICATED.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

1/2 — 0 — 1

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	DK
Checked by	SH
Project No.	43045
Scale	AS NOTED
Date	09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN INC
4 BOSTON POST ROAD WEST,
SUITE 202, RIVERHEAD, NY 11901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL - SOFTBALL SBPB 50-02-01-06-0-010-006
PRESS BOX - SOFTBALL SBPB 50-02-01-05-7-000-001
PRESS BOX - BASEBALL SBPB 50-02-01-06-7-001-001

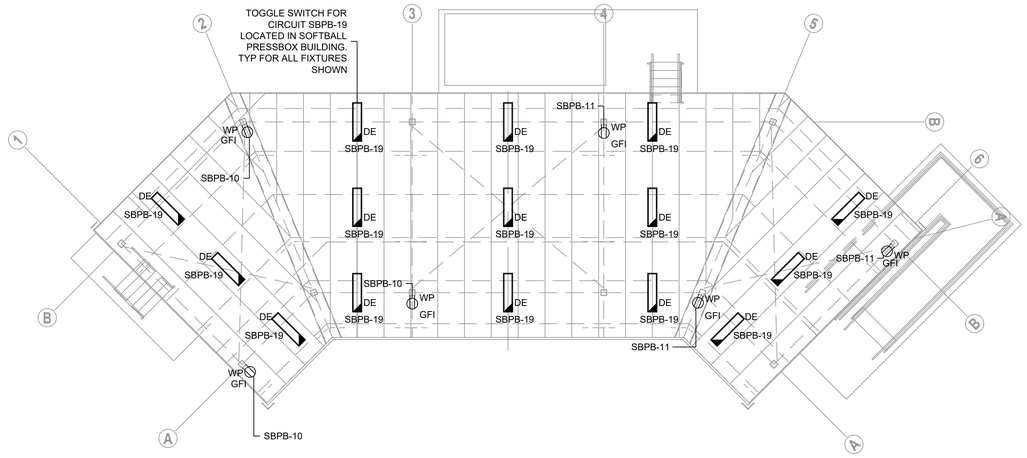
190 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9500
www.shilale.com

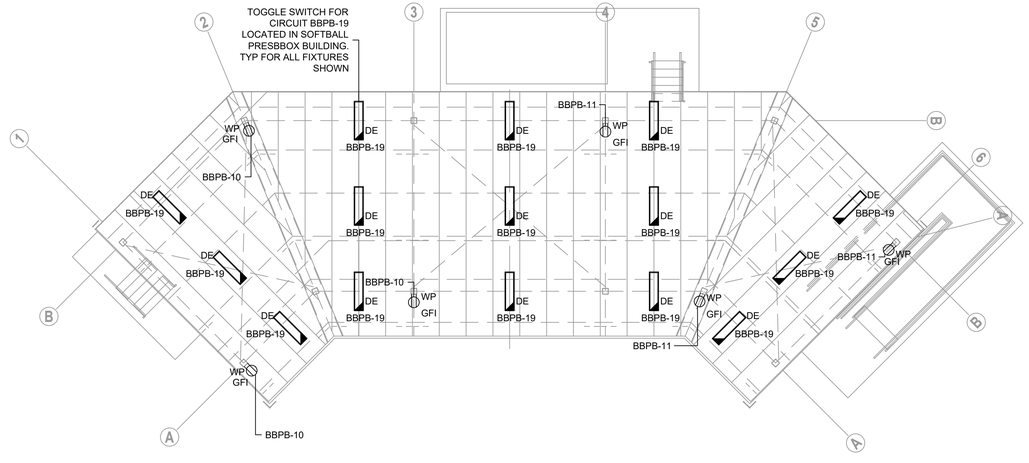
Drawing Title
ELECTRICAL DUGOUT AND PRESSBOX PLANS

Drawing No.
CE-104



1 SOFTBALL GRANDSTAND POWER AND LIGHTING INSTALLATION PLAN

SCALE: 1/8" = 1' 0"

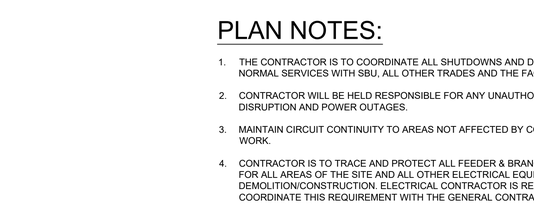


2 BASEBALL GRANDSTAND POWER AND LIGHTING INSTALLATION PLAN

SCALE: 1/8" = 1' 0"

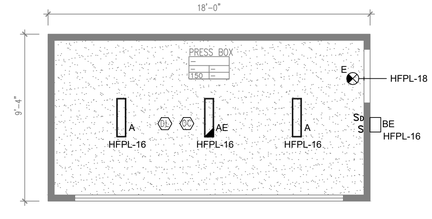
PLAN NOTES:

1. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH SBU, ALL OTHER TRADES AND THE FACILITY.
2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION AND POWER OUTAGES.
3. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY CONSTRUCTION WORK.
4. CONTRACTOR IS TO TRACE AND PROTECT ALL FEEDER & BRANCH CIRCUITS FOR ALL AREAS OF THE SITE AND ALL OTHER ELECTRICAL EQUIPMENT DURING DEMOLITION/CONSTRUCTION. ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE THIS REQUIREMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
5. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES, EXISTING AND NEW BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENT, LANDSCAPING ETC., FOR CODE COMPLIANT INSTALLATION.
6. ALL ELECTRIC SERVICES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS & THE NATIONAL ELECTRIC CODE (NEC).
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE COMPLIANT GROUNDING OF THE CIRCUITS, EQUIPMENT AND CONDUITS AS PER NEC AND SPECIFICATION.
8. ALL UNDERGROUND CONDUITS SHALL BE PVC/RGC AND RUN 24" BELOW GRADE UNLESS OTHERWISE INDICATED.
9. ALL SPARE CONDUITS SHALL BE INSTALLED WITH DRAG LINES.
10. COORDINATE WITH LANDSCAPE ARCHITECT AND ARCHITECTURAL DRAWINGS FOR SURFACE RESTORATION AND RESURFACING WORK.
11. THE CONTRACTOR SHALL PROVIDE MAGNETIC WARNING TAPE FOR EACH UNDERGROUND DUCT BANK/CONDUIT.
12. THE CONTRACTOR IS REQUIRED TO USE POLYWATER AFT-AEROSOL FOAM SEALANT OR EQUIVALENT TO SEAL BOTH ENDS OF SERVICE CONDUITS TO FILL THE GAP BETWEEN CABLES AND CONDUIT IN ORDER TO PREVENT ANY WATER PENETRATION THROUGH CONDUITS TO THE ELECTRICAL EQUIPMENT INSIDE THE BUILDING. THE CONDUIT OPENINGS (GAP BETWEEN CABLES AND CONDUIT) SHALL BE SEALED DEEP ENOUGH TO CONFIRM THAT NO WATER INFILTRATION IS TAKING PLACE.
13. ROUTING OF CONDUITS SHALL BE AS PER LANDSCAPE ARCHITECTS DRAWINGS
14. ALL CONDUITS PASSING THROUGH ROADWAYS SHALL BE ENCASED IN MINIMUM 2" THICK CONCRETE
15. ALL CONDUITS SHALL RUN 24" BELOW GRADE, UNLESS OTHERWISE INDICATED.



3 HOCKEY FIELD PRESSBOX FLOOR INSTALLATION PLAN

SCALE: 1/4" = 1' 0"



4 HOCKEY FIELD PRESSBOX LIGHTING INSTALLATION PLAN

SCALE: 1/4" = 1' 0"

1/2" = 1" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	DK
Checked by	SH
Project No.	43045
Scale	AS NOTED
Date	09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN INC
8 AIRPORT PARK BLVD
SUITE 202, LATHAM, NY 12110

Landscape Architect & Civil Engineer:

Structural & MEP Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBPB# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL: SBPB# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBPB# 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

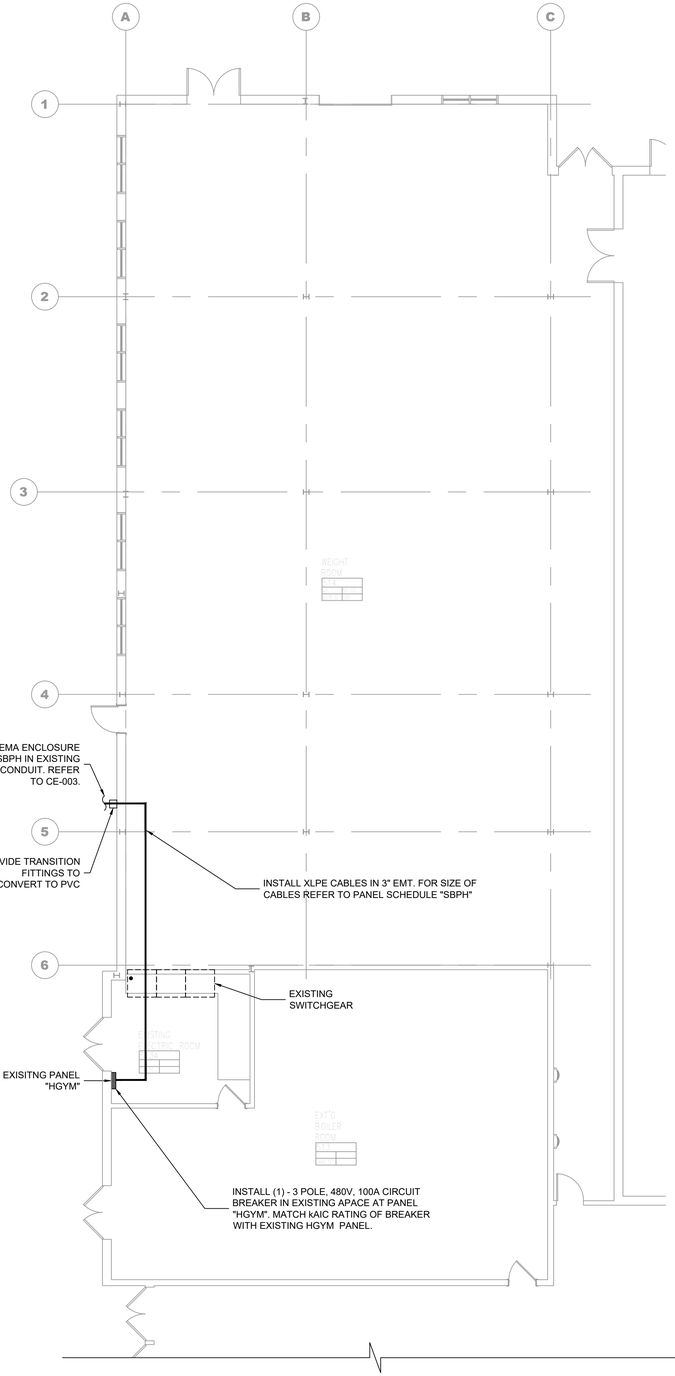
TOWN OF RAMAPO/VILLAGE OF PEARL RIVER
COUNTY OF ROCKLAND

HSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL SOFTBALL BLEACHER CANOPY LIGHTING PLAN

Drawing No.
CE-105

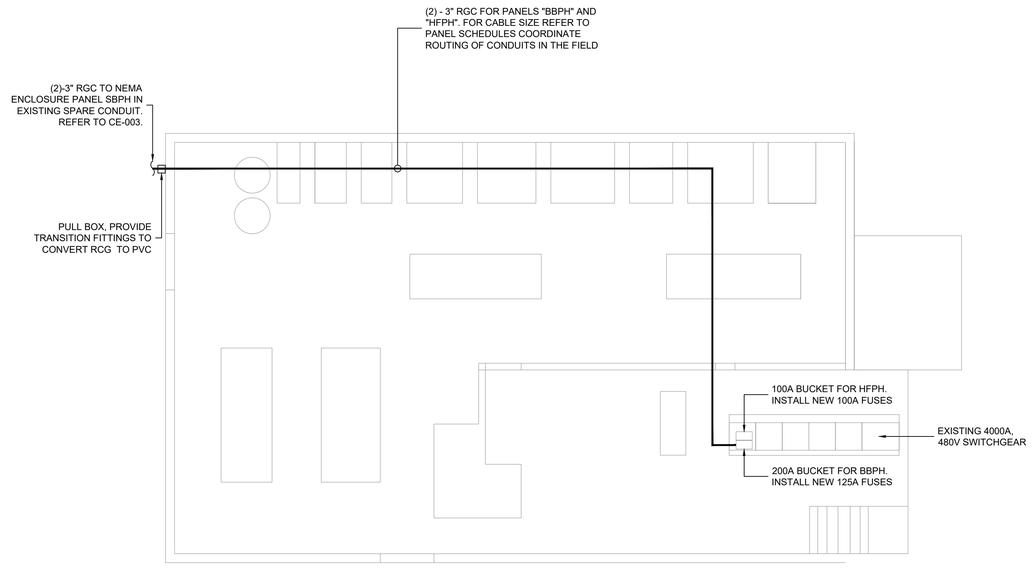


1 ANNEX BUILDING ELECTRICAL ROOM INSTALLATION PART PLAN

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

PLAN NOTES:

1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING CE-001.
2. ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND POWER BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
3. PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
4. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
5. CONTRACTOR SHALL PERFORM AMP PROBE READINGS ON EXISTING SERVICE EQUIPMENT BEFORE AND AFTER WORK TO ENSURE EQUIPMENT WILL NOT BE LOADED BEYOND ITS MAX AMPACITY.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES AS REQUIRED TO KEEP CONTINUITY.
7. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS TO MATCH EXISTING FIRE RATING WHERE APPLICABLE. ALL CORE DRILLS SHALL BE VERIFIED BY BUILDING REPRESENTATIVE PRIOR TO COMMENCING WORK. X-RAY ALL FLOOR SLABS PRIOR TO ROUGH-INS FOR CORE DRILL WORK.
8. THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
9. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.



2 MAIN BUILDING ELECTRICAL ROOM INSTALLATION PART PLAN

SCALE: N.T.S.

1/2" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EMPIRE DRIVE, KINGS PARK
SUITE 202, HUNTINGTON, NY 11901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBPH 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL: SBPH 50-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBPH 50-02-01-05-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL MAIN & ANNEX BUILDING INSTALLATION PART PLANS

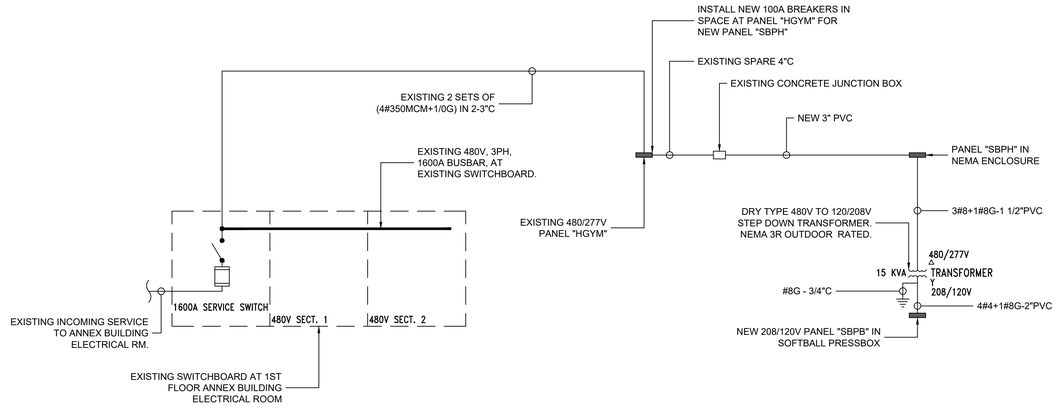
Drawing No.
CE-401

NOTES:

1. ALL CIRCUITS AND FUSE CUTOUTS ARE THREE (3) POLE U.O.I.
2. FUSE RATING IN AMPS ARE DENOTED BY THE LETTERS "AF" SWITCH FRAME RATING IN AMPS ARE DENOTED BY THE LETTERS "AS" AND FRAME RATING IN AMPS ARE DENOTED BY THE LETTERS "AF" CIRCUIT BREAKER TRIP RATING IN AMPS ARE DENOTED BY THE LETTERS "AT".
3. FOR FEEDER SIZE TO PANELS AND DISTRIBUTION BOARDS REFER TO CE-403 AND CE-404 SERIES DWGS.
4. ALL LIVE PARTS MIN 12" OFF FINISHED FLOOR.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES, ONCE COORDINATION IS COMPLETED; CONTRACTOR SHALL SUBMIT SHOP DRAWING OF ALL CONDUIT ROUTING FOR ALL SWITCHGEAR, DISTRIBUTION BOARD, PANEL ETC. PRIOR TO ANY INSTALLATION TO EOR FOR REVIEW AND APPROVAL.
6. ELECTRICAL CONTRACTOR MUST COORDINATE WITH O&R THE AVAILABLE SHORT CIRCUIT CURRENT, PRIOR TO SUBMITTING TO EOR FOR APPROVAL.
7. ELECTRICAL CONTRACTOR TO PROVIDE WARNING SIGN (AS PER NEC 700.7(B)) "WARNING SHOCK HAZARD EXIST IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED".
8. ALL PANEL BOARD SHALL BE PROVIDED WITH 25% SPARE CIRCUIT BREAKERS.

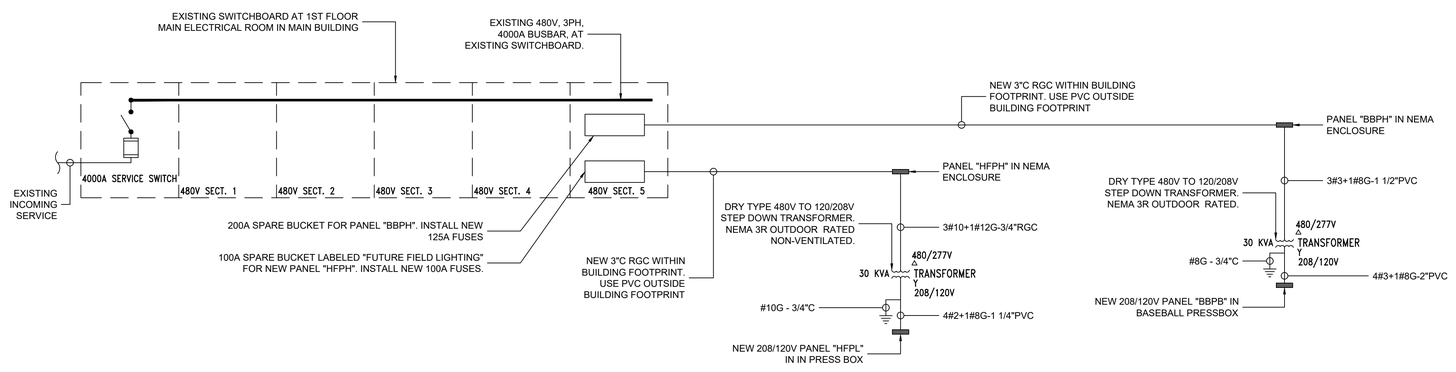
ABBREVIATIONS	
MDB	MAIN DISTRIBUTION BOARD
SWBD	SWITCHBOARD
SSW	SERVICE SWITCH
SEC	SECTION
CT	CURRENT TRANSFORMER
HDB	HVAC DISTRIBUTION BOARD
AS	AMPERE SWITCH
AF	AMPERE FUSE
SW	SWITCH
FOR ALL OTHER ABBREVIATIONS REFER DWG CE001	

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE



1 ELECTRICAL PARTIAL POWER RISER FOR SERVICES FROM ANNEX BUILDING

SCALE: NTS



2 ELECTRICAL PARTIAL POWER RISER FOR SERVICES FROM MAIN BUILDING

SCALE: NTS

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC
45 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
18 COMPUTER DRIVE WEST
SUITE 202, ALBANY, NY 12205
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBPH 50-02-01-06-0-016-026
PRESS BOX – SOFTBALL: SBPB 50-02-01-06-7-000-001
PRESS BOX – BASEBALL: SBPH 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel (845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL PARTIAL ONE LINE DIAGRAMS

Drawing No.
CE-402

PANEL SCHEDULE													
PANEL NAME:	SBPH	LOCATION:	SOFT BALL NEMA ENCLOSURE				MOUNTING:	SURFACE					
VOLTAGE/PHASE:	277/480V, 3 Phase, 4W & G	PANEL (AMP)	100A				FREQUENCY:	60 Hz					
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE	4#2/0+1#4G IN 3"C PVC SCH 80				FEEDING SOURCE:	HGYM					
MAIN BREAKER TYPE	MCCB	MAIN BREAKER RATING (A):	100A				BRANCH C.B TYPE	MCB					
Load Designation	Wiring	Phase Load in VA							Wiring	Load Designation			
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)					
POLE A3	3#8+1#10G - 1 1/2"C PVC SCH 40	30	1	2153			2		3#8+1#10G - 1 1/2"C PVC SCH 40	POLE A4			
			3	2153	2153		4	30					
			5		2153	2153	6						
POLE B3	3#8+1#10G - 1 1/2"C PVC SCH 40	30	7	2660			8		3#8+1#10G - 1 1/2"C PVC SCH 40	POLE B4			
			9	2660	2660		10	30					
			11		2660	2660	12						
CONTROL VTG TRANSFORMER	2#12+1#12G - 3/4"RGC	20	13	500			14	20	2#12+1#12G - 3/4"RGC	CONTROL VTG TRANSFORMER			
OUTDOOR INVERTER	2#12+1#12G - 3/4"RGC	20	15	500	1000		16	20	2#10+1#12G - 1"PVC	PARKING LOT LIGHTS			
FLAG POLE LIGHTING	2#10+1#12G - 1"C PVC SCH 40	20	17			400	18	20		SPARE			
PANEL SBPB- PRESS BOX SOFTBALL FIELD TRANSFORMER	3#8+1#10G - 1 1/2"C	25	19	4000			20	20		SPARE			
			21		4000		22	20		SPARE			
			23			4000	24	20		SPARE			
SPARE		20	25				26	20		SPARE			
SPARE		20	27				28	20		SPARE			
SPARE		20	29				30	20		SPARE			
CONNECTED LOAD PER PHASE IN VA				14626	14626	14026	PANEL TYPE: NEMA 1 MOUNTING: SURFACE COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR DOOR: INDOOR TYPE						
TOTAL CONNECTED LOAD IN KVA				43.278									
TOTAL DEMAND LOAD IN AMPS				52.06									

PANEL SCHEDULE													
PANEL NAME:	BBPH	LOCATION:	BASEBALL NEMA ENCLOSURE				MOUNTING:	SURFACE					
VOLTAGE/PHASE:	277/480V, 3 Phase, 4W & G	PANEL (AMP)	200A				FREQUENCY:	60 Hz					
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE	4#4/0+1#2G IN 3"C PVC SCH 80				FEEDING SOURCE:	200A DISCONNECT IN MAIN ELECTRICAL ROOM					
MAIN BREAKER TYPE	MCCB	MAIN BREAKER RATING (A):	150A				BRANCH C.B TYPE	MCB					
Load Designation	Wiring	Phase Load in VA							Wiring	Load Designation			
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)					
POLE A1	3#8+1#10G - 1 1/2"C PVC SCH 40	20	1	2660			2		3#8+1#10G - 1 1/2"C PVC SCH 40	POLE A2			
			3	2660	2660		4	20					
			5			2660	6						
POLE B1	3#8+1#10G - 1 1/2"C PVC SCH 40	30	7	4552			8		3#8+1#10G - 1 1/2"C PVC SCH 40	POLE B2			
			9	4552	4552		10	30					
			11		4552	4552	12						
CONTROL VTG TRANSFORMER	2#12+1#12G - 3/4"RGC	20	13	500			14	20	2#12+1#12G - 3/4"RGC	CONTROL VTG TRANSFORMER			
OUTDOOR INVERTER	2#12+1#12G - 3/4"RGC	20	15	500	1000		16	20		SPARE			
SPARE		20	17				18	20		SPARE			
PANEL BBPB- PRESS BOX BASEBALL FIELD TRANSFORMER	3#3+1#8G - 1 1/2"C	100	19	5595			20	20		SPARE			
			21		4975		22	20		SPARE			
			23			4812	24	20		SPARE			
POLE C1	3#8+1#10G - 1 1/2"C PVC SCH 40	20	25	3831			26		3#8+1#10G - 1 1/2"C PVC SCH 40	POLE C2			
			27	3831	3831		28	20					
			29		3831	3831	30						
CONNECTED LOAD PER PHASE IN VA				28681	28061	26898	PANEL TYPE: NEMA 1 MOUNTING: SURFACE COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR DOOR: INDOOR TYPE						
TOTAL CONNECTED LOAD IN KVA				83.64									
TOTAL DEMAND LOAD IN AMPS				100.61									

PARKING LOT LIGHTING FIXTURE SCHEDULE							
TYPE	WATT	VOLT	TYPE COMMENTS	MOUNTING	LAMPS	MANUFACTURER CATALOG NUMBER	REMARKS
A	27 W	277 V	PRESS BOX	SURFACE	LED	4-OC1-LED-4000L-DIM10-MVOLT-35K-90-0-LED-10W	1X4 SURFACE MOUNTED FIXTURE FOR PRESS BOX
AE	27 W	277 V	PRESS BOX	SURFACE	LED	4-OC1-LED-4000L-DIM10-MVOLT-35K-90-0-EMG-LED-10W	1X4 SURFACE MOUNTED FIXTURE FOR PRESS BOX WITH INTEGRAL BATTERY BACK UP.
BE	29 W	277 V	PRESS BOX	WALL	LED	121-16L-200-NW-G4-2-EBPC-UNV-BK	LED WALL SCONCE FOR PRESS BOX
C	24 W	277 V	DUGOUT	SURFACE	LED	NICHE-2NS-FL-4-LO-UNV-3500K-90-SD-SM-WT	1X4 SURFACE MOUNTED FIXTURE FOR DUGOUT
DE	42 W	277 V	GRANDSTAND	SURFACE	LED	NICHE-2NS-FL-4-HO-UNV-3500K-90-SD-SM-EM-WT	1X4 SURFACE MOUNTED FIXTURE FOR GRANDSTAND WITH INTEGRAL BATTERY BACK UP.
E	5 W	277 V	PRESSBOX	CLG/WALL	LED	ELX-604-R-AL-1-CLEAR	EXIT LIGHT

PARKING LOT LIGHTING FIXTURE SCHEDULE							
TYPE	WATT	VOLT	TYPE COMMENTS	MOUNTING	LAMPS	MANUFACTURER CATALOG NUMBER	REMARKS
P	108W	277 V	MOUNTED BACK TO BACK ON 18' POLE	POLE	LED	LDS-SAL-110-DB-T5-1-40 BACK TO BACK	DOUBLE HEAD ON 20' POLE. TYPE 5. FURNISH & INSTALL POLE SIMILAR TO EXIST. PARKING LOT LIGHT INSTALLED ON SITE
S	108W	277 V	SITE LIGHTING MOUNTED ON 25' POLE	POLE	LED	CIRLY-32-4-70-T2-(120-277)-TP-BLK-LNSHLD	TYPE 2 DISTRIBUTION. VERIFY LENS SHIELDING WITH PHOTOMETRICS

PANEL SCHEDULE													
PANEL NAME:	SBPB	LOCATION:	SOFT BALL PRESSBOX				MOUNTING:	SURFACE					
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL (AMP)	100 A				FREQUENCY:	60 Hz					
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE	4#4+1#8G - 2"PVC				FEEDING SOURCE:	15kVA TRANSFORMER					
MAIN BREAKER TYPE	MCCB	MAIN BREAKER RATING (A):	50 A				BRANCH C.B TYPE	MCB					
Load Designation	Wiring	Phase Load in VA							Wiring	Load Designation			
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)					
SOFT BALL PRESS BOX LTG	2#12+1#12G - 3/4"C	20	1	200			2	20	2#12+1#12G - 3/4"C	SOFT BALL LSS			
RECEPTACLES @ PRESS BOX	2#12+1#12G - 3/4"C	20	3	500	760		4	20	2#12+1#12G - 3/4"C	RECEPTACLES @ PRESS BOX			
QUAD @ PRESS BOX FOR DATA	2#12+1#12G - 3/4"C	20	5		720	720	6	20	2#12+1#12G - 3/4"C	ACCU-1			
AHU-1	2#12+1#12G - 3/4"C	20	7	208		1320	8						
			9	1320	208		10	20	2#12+1#12G - 3/4"C	GRAND STAND RECEPTACLES			
GRAND STAND RECEPTACLES	2#12+1#12G - 3/4"C	20	11		540	540	12	20	2#10+1#12G-2"PVC	SOFTBALL DUGOUT LIGHTING			
SOFTBALL DUGOUT RECEPTACLES	2#12+1#12G - 2"PVC	20	13	540		200	14	20	2#10+1#12G-2"PVC	SOFTBALL DUGOUT LIGHTING			
SOFTBALL DUGOUT RECEPTACLES	2#12+1#12G - 2"PVC	20	15	200	720		16						
EXIT LIGHT	2#12+1#12G - 3/4"C	20	17		360	5	18	20	2#10+1#12G-1"PVC	INVERTER FOR MUSO EGRESS LTG			
GRAND STAND LIGHTING	2#12+1#12G - 3/4"C	20	19	600		360	20						
SOFT BALL SCORE BOARD CKT 1	2#10+1#12G-2"PVC	20	21	360	500		22	20	2#10+1#12G-2"PVC	BASE BALL SCORE BOARD CKT 1			
SOFT BALL SCORE BOARD 1 CKT 2	2#10+1#12G-2"PVC	20	23		500	200	24	20	2#10+1#12G-2"PVC	BASE BALL SCORE BOARD CKT 2			
SOFTBALL DUGOUT LIFT	2#10+1#12G-1"PVC	20	25	250		200	26	20		SPARE			
SPARE		20	27				28	20		SPARE			
SCORE BOARD RECEPTACLE	2#10+1#12G-2"PVC	20	29			180	30	20	2#10+1#12G-2"PVC	SOFTBALL DUGOUT LIFT			
UH-1	2#12+1#12G - 3/4" C	20	31	1667		250	32	20		SPARE			
			33		1667		34	20		SPARE			
			35			1667	36	20		SPARE			
SPARE		20	37				38	20		SPARE			
SPARE		20	39				40	20		SPARE			
SPARE		20	41				42	20		SPARE			
CONNECTED LOAD PER PHASE IN VA				5845	5975	5642	PANEL TYPE: NEMA 1 MOUNTING: SURFACE COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR DOOR: INDOOR TYPE						
TOTAL CONNECTED LOAD IN KVA				17.462									
TOTAL LOAD IN AMPS				48.47									

PANEL SCHEDULE													
PANEL NAME:	BBPB	LOCATION:	BASE BALL PRESBBOX				MOUNTING:	SURFACE					
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL (AMP)	100 A				FREQUENCY:	60 Hz					
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE	4#3+1#8G - 2"PVC				FEEDING SOURCE:	BASE BALL TRANSFORMER					
MAIN BREAKER TYPE	MCB	MAIN BREAKER RATING (A):	50 A				BRANCH C.B TYPE	MCCB (BOLT ON)					
Load Designation	Wiring	Phase Load in VA							Wiring	Load Designation			
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)					
BASE BALL PRESS BOX LTG	2#12+1#12G - 3/4"C	20	1	200			2	20	2#12+1#12G - 3/4"C	BASE BALL LSS			
RECEPTACLES @ PRESS BOX	2#12+1#12G - 3/4"C	20	3	500	760		4	20	2#12+1#12G - 3/4"C	RECEPTACLES @ PRESS BOX			
QUAD @ PRESS BOX FOR DATA	2#12+1#12G - 3/4"C	20	5		720	720	6	20	2#12+1#12G - 3/4"C	ACCU-2			
AHU-2	2#12+1#12G - 3/4"C	20	7	208		1320	8						
			9	1320	208		10	20	2#12+1#12G - 3/4"C	GRAND STAND RECEPTACLES			
GRAND STAND RECEPTACLES	2#12+1#12G - 3/4"C	20	11		540	540	12	20	2#10+1#12G-2"PVC	BASEBALL DUGOUT LIGHTING			
BASEBALL DUGOUT RECEPTACLES	2#12+1#12G - 2"PVC	20	13	540		200	14	20	2#10+1#12G-2"PVC	BASEBALL DUGOUT LIGHTING			
BASEBALL DUGOUT RECEPTACLES	2#12+1#12G - 2"PVC	20	15	200	720		16						
EXIT LIGHT	2#12+1#12G - 3/4"C	20	17		360	5	18	20	2#10+1#12G-1"PVC	INVERTER FOR MUSO EGRESS LTG			
GRAND STAND LIGHTING	2#12+1#12G - 3/4"C	20	19	600		360	20						
BASEBALL DUGOUT LIFT	2#10+1#12G-1"PVC	20	21	360			22	20	2#10+1#12G-1"PVC	BASEBALL DUGOUT LIFT			
UH-2	2#12+1#12G - 3/4" C	20	23			1667	24	20		SPARE			
			25	1667			26	20		SPARE			
			27		1667		28	20		SPARE			
SPARE		20	29				30	20		SPARE			
CONNECTED LOAD PER PHASE IN VA				5595	4975	4812	PANEL TYPE: NEMA 1 MOUNTING: SURFACE COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR DOOR: INDOOR TYPE						
TOTAL CONNECTED LOAD IN KVA				15.382									
TOTAL LOAD IN AMPS				42.70									

PANEL SCHEDULE NOTES:

1. PANEL BOARDS SHALL INCLUDE ALL APPLICABLE UL AND PRODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
2. ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED
3. ALL EXISTING CIRCUITS TO REMAIN SHALL BE DISCONNECTED FROM EXISTING PANEL, EXTENDED AND RECONNECTED TO NEW PANEL.

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
ENGINEERS, PLANNERS
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBPH 50-09-01-06-0-010-036
PRESS BOX – SOFTBALL SBPB 50-09-01-06-0-010-001
PRESS BOX – BASEBALL SBPB 50-09-01-06-0-001-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

Drawing Title
ELECTRICAL LIGHTING FIXTURE AND PANEL SCHEDULES

Drawing No.
CE-403

PANEL SCHEDULE											
PANEL NAME:	HFPH	**LOCATION:**		HOCKEY FIELD NEMA ENCLOSURE				**MOUNTING:**	SURFACE		
VOLTAGE/PHASE:	277/480V, 3 Phase, 4W & G	**PANEL (AMP)**		100A				**FREQUENCY:**	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	22 KA	**FEEDER SIZE**		4#2/0+1#4G IN 3"C PVC SCH 80				**FEEDING SOURCE:**	100A DISCONNECT IN MAIN ELECTRICAL ROOM		
MAIN BREAKER TYPE	MCCB	**MAIN BREAKER RATING (A):**		100A				**BRANCH C.B TYPE**	MCB		
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**	
		C/B (A)	**CT NO**	AØ	BØ	CØ	**CT NO**	**C/B (A)**			
S1	**3#8+1#10G - 1 1/2"C PVC SCH 40**	**20**	1	4354			2	**20**	**3#8+1#10G - 1 1/2"C PVC SCH 40**	**S2**	
				4354							
			3		4354		4				
					4354						
			5			4354	6				
						4354					
S3	**3#8+1#10G - 1 1/2"C PVC SCH 40**	**20**	7	4354			8	**20**	**3#8+1#10G - 1 1/2"C PVC SCH 40**	**S4**	
				4354							
			9		4354		10				
					4354						
			11			4354	12				
						4354					
SPARE		**20**	13				14	**20**		**SPARE**	
PARKING LOT LIGHTING	**2#10+1#12G - 1"PVC**	**20**	15		1500		16	**30**	**4#6+1#10G-1 1/2"PVC**	**SITE LIGHTING**	
FLAG POLE LIGHTING	**2#10+1#12G - 1"C PVC SCH 40**	**20**	17		300	400	18				
						300					
30 KVA STEP DOWN TRANSFORMER FOR HFPL	**3#2+1#8G - 1 1/4"RGC**	**60**	19	4295			20				
				300							
			21		3667		22	**20**		**SPARE**	
			23			3625	24	**20**		**SPARE**	
SPARE		**20**	25				26	**20**		**SPARE**	
SPARE		**20**	27				28	**20**		**SPARE**	
SPARE		**20**	29				30	**20**		**SPARE**	
CONNECTED LOAD PER PHASE IN VA				22011	22883	21741	**PANEL TYPE: NEMA 1 MOUNTING: SURFACE** **COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR** **DOOR: INDOOR TYPE**				
TOTAL CONNECTED LOAD IN KVA				66.635							
TOTAL DEMAND LOAD IN AMPS				80.15							

PANEL SCHEDULE											
PANEL NAME:	HFPL	**LOCATION:**		HOCKEY FIELD PRESS BOX				**MOUNTING:**	SURFACE		
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	**PANEL (AMP)**		100 A				**FREQUENCY:**	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	22 KA	**FEEDER SIZE**		4#2+1#8G-1 1/4"PVC				**FEEDING SOURCE:**	TRANSFORMER IN NEMA ENCLOSURE		
MAIN BREAKER TYPE	MCCB	**MAIN BREAKER RATING (A):**		60 A				**BRANCH C.B TYPE**	MCB		
Load Designation	**Wiring**	**Phase Load in VA**							**Wiring**	**Load Designation**	
		C/B (A)	**CT NO**	AØ	BØ	CØ	**CT NO**	**C/B (A)**			
HOCKEY FIELD CKT 1	**2#10+1#12G-2"PVC**	**15**	1	500			2	**15**	**2#10+1#12G - PVC**	**SCORE BD OUTLET**	
				180							
HOCKEY FIELD CKT 2	**2#10+1#12G-2"PVC**	**15**	3		200		4	**15**	**2#12+1#12G - PVC**	**SHOT CLOCK AND OUTLET**	
					720						
OUTLET	**2#12+1#12G - 1" PVC**	**15**	5			180	6	**15**	**2#12+1#12G - PVC**	**MUSCO CONTROL CABINET**	
						250					
RECEPTACLES @ PRESS BOX	**2#12+1#12G - 3/4" C**	**20**	7	240			8	**20**	**2#12+1#12G - 3/4" C**	**RECEPTACLES @ PRESS BOX**	
				180							
RECEPTACLES @ PRESS BOX	**2#12+1#12G - 3/4" C**	**20**	9		720		10	**20**	**2#12+1#12G - 3/4" C**	**RECEPTACLES @ PRESS BOX**	
					360						
AHU-3	**2#12+1#12G - 3/4" C**	**20**	11			208	12	**20**	**2#12+1#12G - 3/4" C**	**ACCU-3**	
						1320					
			13	208			14				
				1320							
UH-3	**2#12+1#12G - 3/4" C**	**20**	15		1667		16	**20**	**2#12+1#12G - 3/4" C**	**HOCKEY FIELD PRESS BOX LGT**	
			17			1667	18	**20**	**2#12+1#12G - 3/4" C**	**HOCKEY FIELD PRESS BOX LGT**	
			19	1667			20	**20**		**SPARE**	
		20	21				22	**20**		**SPARE**	
SPARE		**20**	23				24	**20**		**SPARE**	
SPARE		**20**	25				26	**20**		**SPARE**	
SPARE		**20**	27				28	**20**		**SPARE**	
SPARE		**20**	29				30	**20**		**SPARE**	
CONNECTED LOAD PER PHASE IN VA				4295	3667	3625	**PANEL TYPE: NEMA 1 MOUNTING: SURFACE** **COPPER BUS, EQUIP. GROUND BAR, & CLASS B SURGE PROTECTOR** **DOOR: INDOOR TYPE**				
TOTAL CONNECTED LOAD IN KVA				11.587							
TOTAL LOAD IN AMPS				32.16							

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by

Checked by

Project No. 43045

Scale AS NOTED

Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN, INC
2 ROBERTS ROAD, SUITE 202
SUITE 202, SUFFERN, NY 10901

Landscape Architect & Civil Engineer:

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-08-0-016-000
PRESS BOX – SOFTBALL SBL# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-05-7-001-001

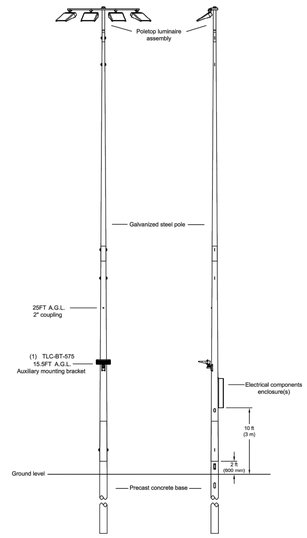
106 Hammond Rd.
Thiells, NY 10984

TOWN OF RAMAPO
COUNTY OF ROCKLAND

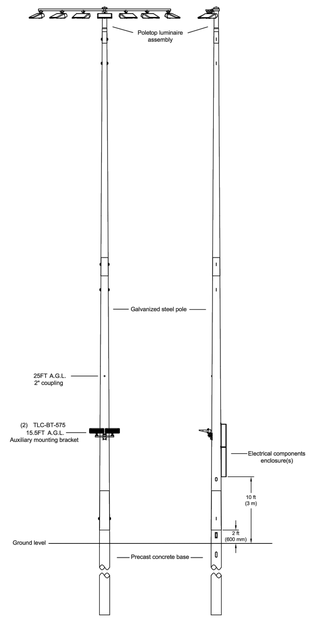
MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
ELECTRICAL PANEL SCHEDULES SHEET #2

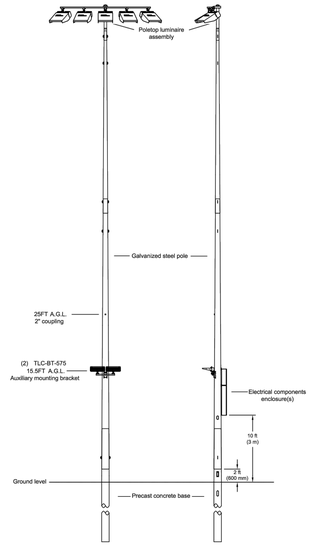
Drawing No.
CE-404



POLE(S): A1, A2, B3, B4
Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires



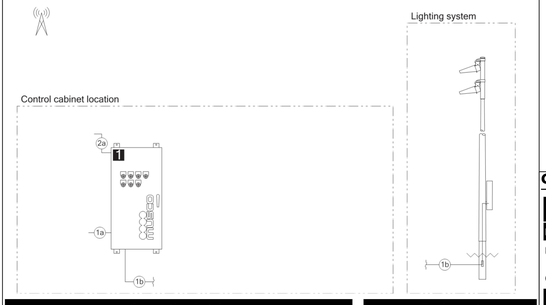
POLE(S): B1, B2
Musco 80FT Light-Structure System™ pole
TLC for LED™ luminaires



POLE(S): C1, C2
Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires

1 DETAILS FOR BASEBALL FIELD LIGHT POLES
SCALE:N.T.S.

Equipment Layout and Connection Details



Connection Details

ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment

ID	Description
1	Control and monitoring cabinet - primary

Circuit Summary

Switching Schedule

Field/Switch Description	Switches
Baseball	1

Control Module ID: 2 — **Lighting Circuit Voltage: 480/60/3**

Circuit Summary by Switch

Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Baseball	A1	5	9.6	30	2	C1
	Baseball	A2	5	9.6	30	2	C2
	Baseball	B1	9	16.43	30	2	C3
	Baseball	B2	9	16.43	30	2	C4
	Baseball	C1	7	13.83	30	2	C5
	Baseball	C2	7	13.83	30	2	C6

Project Information

Control System

Control System ID: 2 of 3
Control System Type: Control-Link ® Control and Monitoring System
Communication Type: PowerLine-ST

Power Requirements

Control cabinet(s):
Control voltage (phase to neutral) 120/60
VA loading - Inrush 2043.0
VA loading - Sealed 232.0
Lighting Circuits:
Voltage/Hertz/Phase 480/60/3

Project Notes:

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	6	-
Off/On/Auto switches	1	-

Preliminary Plans. Confirm all details - see Notes

2 BASEBALL FIELD CIRCUIT & CONTROL SUMMARY, EQUIPMENT LAYOUT & CONNECTION DETAIL
SCALE: N.T.S.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer: **THE LA GROUP** LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC 45 LONG ALLEY, SARATOGA SPRINGS, NY 12866
Structural & PME Engineer: **GREENMAN PEDERSEN, INC** 2 EXECUTIVE BOULEVARD SUITE 202, SUFFERN, NY 10901

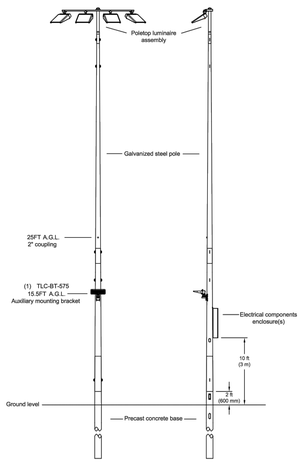
NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-4-016-026
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-009-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
150 Hammond Rd. Thiells, NY 10984
TOWN OF HAVERSTRAW COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

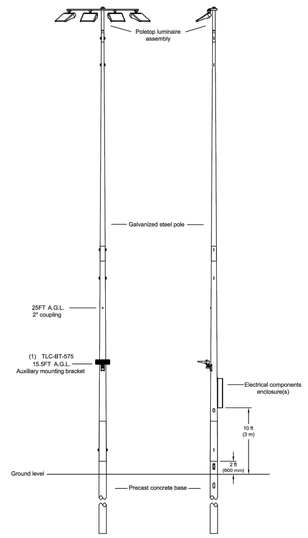
Drawing Title **ELECTRICAL DETAILS SHEET #1**

Drawing No. **CE-501**



POLE(S): A3, A4

Musco 60FT Light-Structure System™ pole
TLC for LED™ luminaires



POLE(S): A1, A2, B3, B4

Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires

23161221	Date: 04/27/2023	Scale: NTS	Drawn By: Samantha Wilson	Job No: 23161	DATE:	BY:	R.L.

REVISIONS:

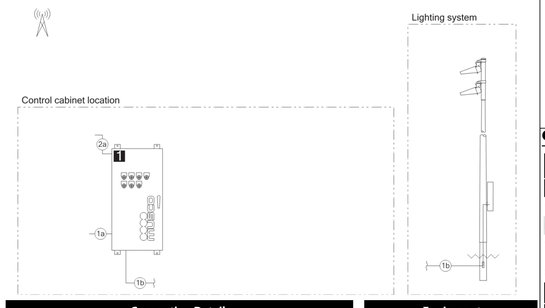
CORPORATE OFFICE: P.O. Box 808 100 1st Avenue West Oskaloosa, Iowa 52577 +1-800-825-8220 +1-641-673-2411

North Rockland High School Athletic Complex
Thiells NY
Pole Configuration Drawing

1 DETAILS FOR SOFTBALL FIELD LIGHT POLES

SCALE: N.T.S.

Equipment Layout and Connection Details



Connection Details	
ID	**Description**
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment	
ID	**Description**
1	Control and monitoring cabinet - primary

Circuit Summary

Switching Schedule	
Field/Switch Description	**Switches**
Softball	1
Flag Pole - SB	2
Site Lighting - SB	3

Control Module ID: 3

Lighting Circuit Voltage: 480/60/3

Circuit Summary by Switch							
Switch	**Zone Description**	**Pole ID**	**Qty of Fixtures**	**Full load amperes**	**Contactor Size (Amps)**	**Cabinet #**	**Contactor ID**
1	Softball	A3	5	7.77	30	3	C1
	Softball	A4	5	7.77	30	3	C2
	Softball	B3	5	9.6	30	3	C3
	Softball	B4	5	9.6	30	3	C4
2	Flag Pole	P3	0	0	30	3	C5
3	Site Lighting - SB	P4	0	0	30	3	C6

Project Information

Control System

Control System ID: 3 of 3
Control System Type: Control-Link T Control and Monitoring System
Communication Type: PowerLine-ST

Power Requirements

Control cabinet(s):
Control voltage (phase to neutral): 120/60
VA loading - Inrush: 2043.0
VA loading - Sealed: 232.0
Lighting Circuits:
Voltage/Hertz/Phase: 480/60/3

Project Notes:

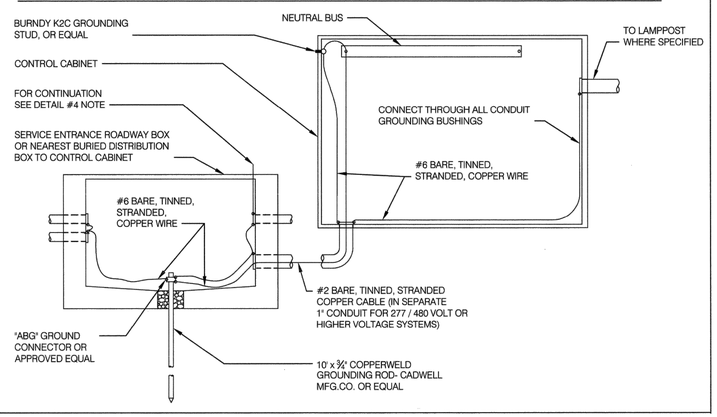
Equipment Listing		
Description	**Qty**	**Size (in)**
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	6	-
Off/On/Auto switches	3	-

Preliminary Plans. Do Not Use. Confirm all details before construction.

2 SOFTBALL FIELD CIRCUIT & CONTROL SUMMARY, EQUIPMENT LAYOUT & CONNECTION DETAIL

SCALE: N.T.S.

SERVICE ENTRANCE GROUNDING

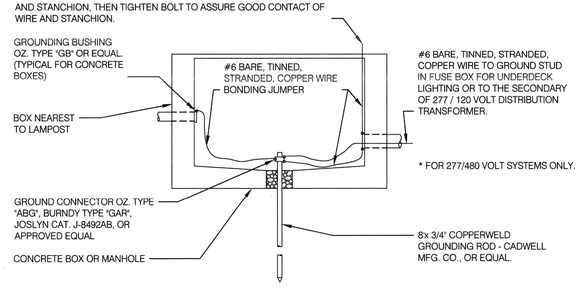


1/2" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

BOX DETAIL

(EVERY FIFTH BOX OR WHERE SPECIFIED ON CONTRACT PLANS)

TO BURNDY K2C GROUND STUD ON FRAME FOR ROADWAY BOXES. BOX STANCHIONS SHALL BE BONDED TO CONDUIT. GROUNDING BUSHINGS BY MEANS OF #6 BARE, TINNED, STRANDED, COPPER WIRE. WRAP #6 BOND WIRE AROUND STANCHION BOLT, PLACE WIRE BETWEEN WALL AND STANCHION, THEN TIGHTEN BOLT TO ASSURE GOOD CONTACT OF WIRE AND STANCHION.



3 TYPICAL CONCRETE ROADWAY BOX GROUNDING DETAILS

SCALE: N.T.S.

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	DK
Checked by	SH
Project No.	43045
Scale	AS NOTED
Date	09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
18 COMPUTER DRIVE WEST
SUITE 202, ALBANY, NY 12065
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBSW 50-02-01-06-0-015-008
PRESS BOX – SOFTBALL SBSW 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBSW 50-02-01-06-7-001-001

105 Ransomed Rd.
Thiells, NY 10984

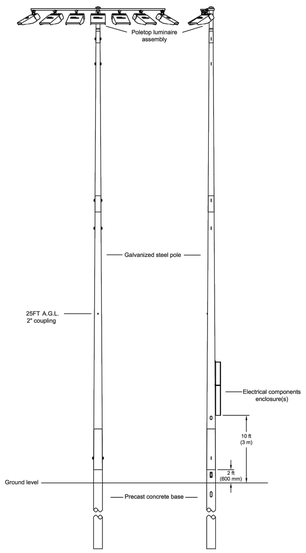
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-768-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL DETAILS SHEET #2

Drawing No.
CE-502



POLE(S): S1-S4

Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires

Job No.	Date	Scale	Drawn By	Approved By	Drawing No.	Rev.
231612P1	12/12/2023	NTS	Wampfler	ZIEBEL	231612	1

DATE: | BY: | R.L.L. | REVISIONS:

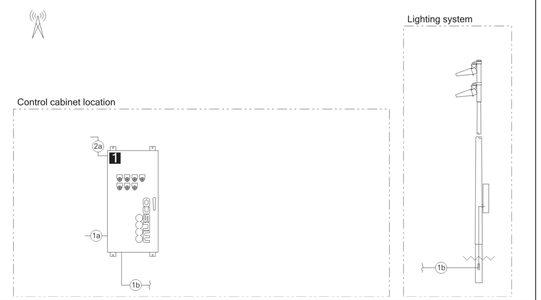
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
+1-800-825-8220
+1-641-673-0411

North Rockland High School Athletic Complex
Thiells NY
Pole Configuration Drawing

1 DETAILS FOR HOCKEY FIELD LIGHT POLES

SCALE: N.T.S.

Equipment Layout and Connection Details



Connection Details

ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment

ID	Description
1	Control and monitoring cabinet - primary

Circuit Summary

Switching Schedule

Field/Switch Description	Switches
Multipurpose	1
Flag Pole	2
Site Lighting	3

Control Module ID: 1 — **Lighting Circuit Voltage: 480/60/3**

Circuit Summary by Switch

Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Multipurpose	S1	7	15.72	30	1	C1
	Multipurpose	S2	7	15.72	30	1	C2
	Multipurpose	S3	7	15.72	30	1	C3
	Multipurpose	S4	7	15.72	30	1	C4
2	Flag Pole	P1	0	0	30	1	C5
3	Site Lighting	P2	0	0	30	1	C6

Project Information

Control System

Control System ID:
Control System Type: Control-Link ® Control and Monitoring System
Communication Type: PowerLine-ST

Power Requirements

Control cabinet(s):

Control voltage (phase to neutral)	120/60
VA loading - Inrush	2043.0
VA loading - Sealed	232.0
Lighting Circuits:	
Voltage/Hertz/Phase	480/60/3

Project Notes:

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	6	-
Off/On/Auto switches	3	-

Preliminary Plans. Details to be Confirmed
Confirm all details - Do not scale

2 HOCKEY FIELD CIRCUIT & CONTROL SUMMARY, EQUIPMENT LAYOUT & CONNECTION DETAIL

SCALE: N.T.S.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer: THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC
18 COMPUTER DRIVE WEST
SUITE 202, EAST SYRACUSE, NY 13057

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-69-01-06-0-010-036
PRESS BOX – SOFTBALL: SBL# 50-80-01-06-7-000-001
PRESS BOX – BASEBALL: SBL# 50-80-01-06-7-001-001

106 Hammond Rd.
Thiells, NY 10984

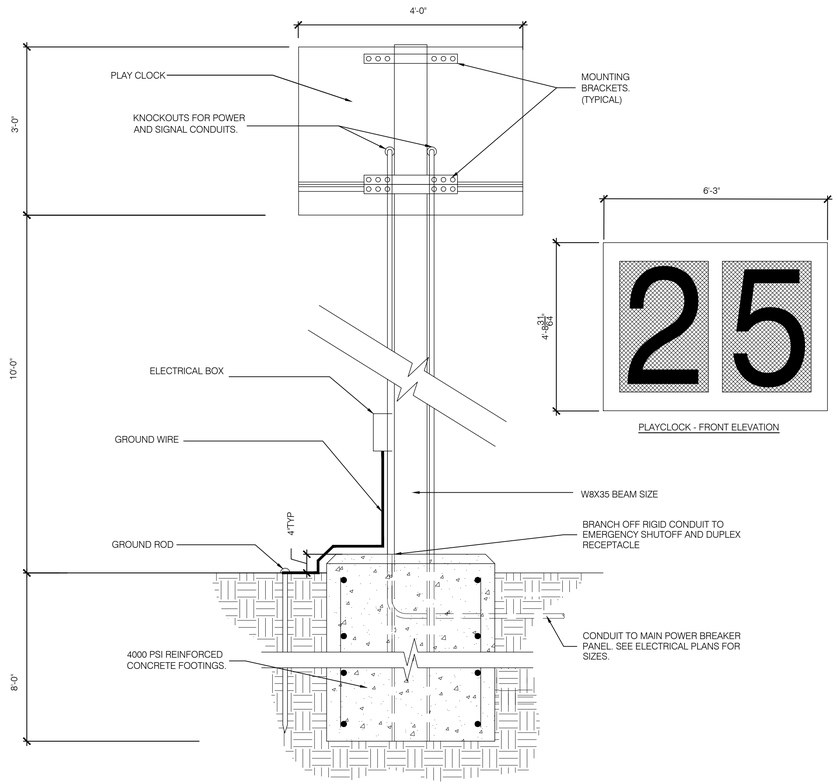
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-8500
www.shlale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

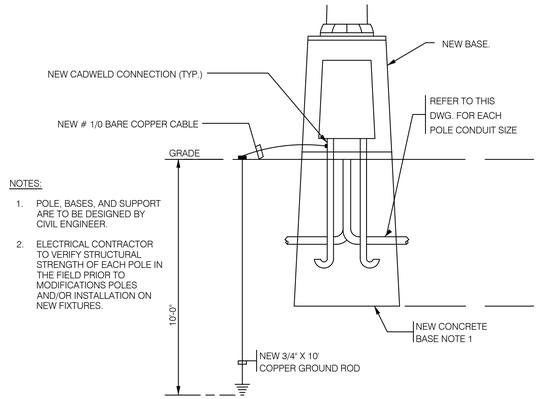
Drawing Title
ELECTRICAL DETAILS SHEET #3

Drawing No.
CE-503



1 PLAY CLOCK REAR ELEVATION DETAIL

SCALE: N.T.S.



NOTES:

1. POLE, BASES, AND SUPPORT ARE TO BE DESIGNED BY CIVIL ENGINEER.
2. ELECTRICAL CONTRACTOR TO VERIFY STRUCTURAL STRENGTH OF EACH POLE IN THE FIELD PRIOR TO MODIFICATIONS POLES AND/OR INSTALLATION ON NEW FIXTURES.

2 TYPICAL GROUNDING DETAIL OF POLE

SCALE: N.T.S.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer: **THE LA GROUP** LANDSCAPE ARCHITECTURE & ENGINEERING 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: **GREENMAN PEDERSEN, INC** 4 BOSTON POST ROAD, SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-08-0-016-026
PRESS BOX – SOFTBALL SBL#: 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SBL#: 50-02-01-05-7-001-001

190 Hammond Rd.
Thiells, NY 10984

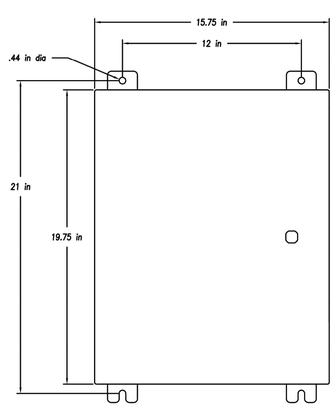
TOWN OF ramapo
COUNTY OF ROCKLAND

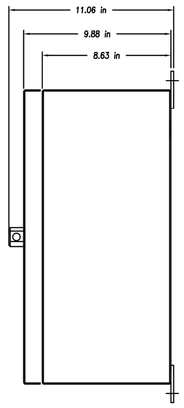
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL DETAILS SHEET #4

Drawing No.
CE-504

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com



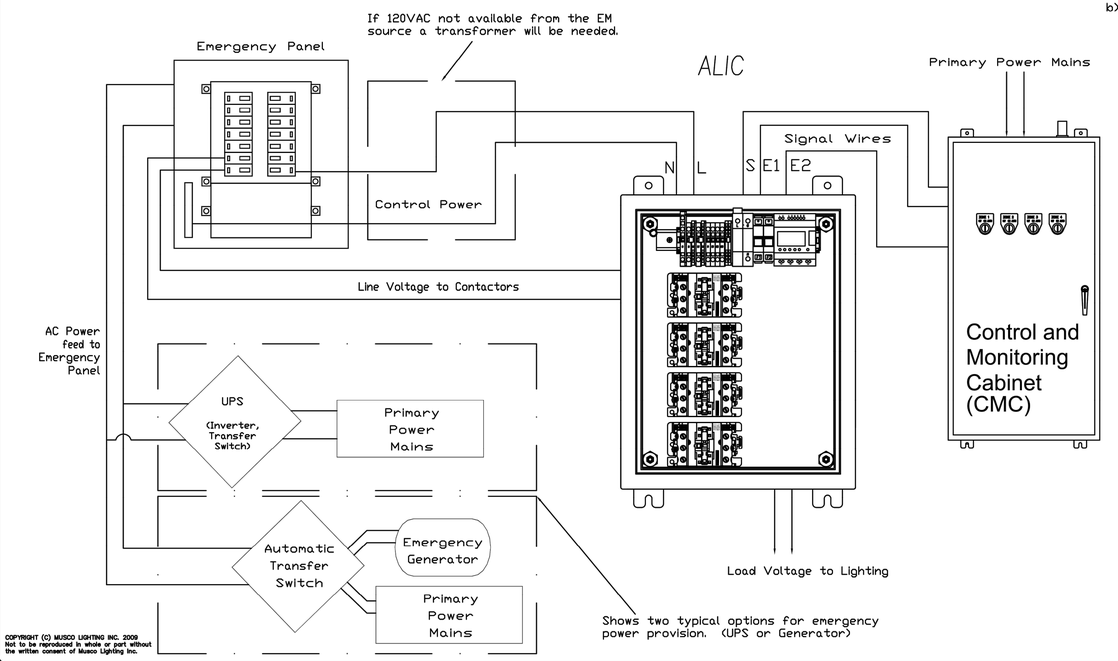


Auxiliary Lighting Interface Cabinet (ALIC)
Standard Operation and Functionality

Functionality
The ALIC provides monitoring of Control-Link (CL) zones and primary 120V power. For the ALIC to work correctly, it and the emergency lighting fixtures will need to be powered from an Emergency Distribution Panel. This Emergency Distribution Panel is assumed to be powered from a UPS or automatic transfer switch, whose operation is to control the power source, either the generator or the mains.

IMPORTANT: The 120 volt power (wire E1) from the Control-Link enclosure is being monitored as the mains or 'normal power.' For best operation, the Control-Link enclosure should be powered from the field lighting distribution panel or what is to be considered the 'main'distribution panel.

Standard sequence of egress operation
1) Primary power (the mains) has an interruption, either sustained or momentary
   a) Operation with a Generator and Transfer Switch
      i) The ALIC will save its current state and look for restoration of power either though the generator or the mains.
      ii) Once power is restored the ALIC will check for CL output previous to the mains outage. If CL output was present the ALIC will output for egress by one of the following:
         1) If a generator restores power the ALIC will continue to output as long as the generator supplies power. Once the mains is restored the ALIC will delay off the egress output for 20 minutes.
         2) If the mains restore without generator operation (MPI) the ALIC will output for 20 minutes.
   b) Operation with a Uninterruptible Power System (UPS)
      i) The UPS activates to keep power online.
      ii) The ALIC will check for CL output previous to the mains outage. If CL output was present the ALIC will output for egress. The ALIC will continue to output as long as the UPS supplies power. Once the mains is restored the ALIC will delay off the egress output for 20 minutes.



COPYRIGHT (C) MUSCO LIGHTING INC. 2009
Not to be reproduced in whole or part without the written consent of Musco Lighting Inc.

Musco MDF
Oskaloosa, IA
ALIC Pre-sale Document

CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

REVISIONS:
DATE:
BY: R.L.

JOB NUMBER:
DRAWN BY: BH
CHECK BY:
REPRESENTATIVE:
SCALE: NTS
DATE: 24 JUN 13
DRAWING NUMBER:
OF SHEETS

1 AUXILIARY LIGHTING INTERFACE CABINET DETAIL
SCALE: N.T.S.

1/2 0 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer: THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN INC
A BERKSHIRE HATHAWAY COMPANY
SUITE 202, RIPPOWAM, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBDM 50-05-01-05-0-015-026
PRESS BOX - SOFTBALL: SBDM 50-05-01-06-7-000-001
PRESS BOX - BASEBALL: SBDM 50-05-01-06-7-001-001
106 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ELECTRICAL DETAILS
SHEET #5

Drawing No.
CE-505

GENERAL NOTES:

1. ALL WORK SHALL BE GOVERNED BY THE TERMS AND CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, THE STRUCTURES HAVE BEEN DESIGNED IN COMPLIANCE WITH THE REQUIREMENTS OF 2020 BUILDING CODE OF NEW YORK STATE, ASCE/SEI 7-16 AND OSHA LATEST EDITION.
2. CONTRACTOR AND SUBCONTRACTOR SHALL BE LICENSED BY NEW YORK STATE WHERE REQUIRED TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO INSTALL ALL NECESSARY COMPONENTS IN THE COMPLETION OF WORK UNDER THIS CONTRACT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK INDICATED IN THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS, APPROVALS, AS WELL AS THEIR ASSOCIATED FEES, FOR ALL TRADES, EXCEPT WHERE SPECIFIED AND AGREED UPON ELSEWHERE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH CLIENT'S REPRESENTATIVE FOR RIGGING AND HOISTING FACILITIES FOR HANDLING MATERIALS AND REMOVAL OF DEBRIS.
6. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH CONDITIONS THEREON AND TO DETERMINE THE EXTENT OF ALL FACILITIES AND SERVICES REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE LATEST CONTRACT DOCUMENTS INCLUDING ALL CHANGES AT THE JOB SITE FOR THE USE OF THE ARCHITECT OF RECORD (AoR) AND/OR ENGINEER OF RECORD (EoR).
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO CLIENT FOR THE ACTS AND OMISSIONS OF ALL THEIR EMPLOYEES AND ALL SUBCONTRACTORS, THEIR AGENTS AND EMPLOYEES, AND ALL OTHER PERSONS PERFORMING ANY OF THE WORK FOR THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED ANYWHERE WITHIN THE BOUNDARIES OF THE PROPERTY, AND ANY DAMAGE SHALL BE PROMPTLY REPAIRED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE CLIENT'S REPRESENTATIVE AND/OR EoR AT NO COST TO THE CLIENT.
10. DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL REGULARLY REMOVE ALL UNUSED MATERIAL, RUBBISH, AND DEBRIS FROM THE PROPERTY AND BROOM CLEAN DAILY. THE SITE AND PREMISES SHALL BE KEPT REASONABLY CLEAN, NEAT AND ORDERLY TO THE SATISFACTION OF THE CLIENT'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL CONTROL CLEANING OPERATIONS TO PREVENT DIRT OR DUST FROM LEAVING THE JOB SITE AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION AND SHALL REPORT ANY DEVIATIONS OF DIMENSIONS, DISCREPANCIES AND/OR CONDITIONS WHICH WOULD INTERFERE WITH THE COMPLETION OF THE WORK TO THE AoR AND/OR EoR FOR RESOLUTION AND BEFORE PERFORMING THE WORK.
13. WHEN "APPROVED EQUAL", "EQUAL TO", "APPROVED ALTERNATE", OR WHERE OTHER QUALIFYING TERMS ARE USED, SUBSTITUTIONS SHALL BE BASED SOLELY UPON THE REVIEW AND APPROVAL OF THE AoR, EoR AND/OR CLIENT'S REPRESENTATIVE. THE BURDEN OF PROOF THAT A PRODUCT OR SYSTEM MEETS OR EXCEEDS THAT WHICH WAS SPECIFIED IN CONSTRUCTION DOCUMENTS LIES ENTIRELY ON THE CONTRACTOR.
14. DO NOT SCALE DRAWINGS. USE DIMENSIONAL NOTATION ONLY.
15. LARGE SCALE DWGS. (i.e. SECTIONS, DETAILS, ETC.) TAKE PRECEDENCE OVER SMALL SCALE DWGS.
16. SUBMIT WELDER'S CERTIFICATION PRIOR TO START OF WORK.
17. SUBMIT SHOP DRAWINGS, PRODUCT DATA FOR APPROVAL PRIOR TO PURCHASE AND FABRICATION OF MATERIALS AND COMPONENTS. REPRODUCTION OF CONTRACT DRAWINGS TO BE USED AS SHOP DRAWINGS IS NOT PERMITTED.
18. WHEN OPEN FLAME OR SPARK-PRODUCING TOOLS AND EQUIPMENT SUCH AS WELDING RODS ARE BEING USED, THE CONTRACTOR SHALL PROVIDE FIRE GUARDS TO MAINTAIN A FIRE WATCH OVER THE OPERATION OF THESE ITEMS AT ALL TIMES DURING THE USE AND UNTIL ALL MATERIALS HAVE COOLED SUFFICIENTLY TO NO LONGER CONSTITUTE A FIRE HAZARD.

STRUCTURAL NOTES:

FOUNDATIONS:

1. CONTINUOUS SHALLOW FOOTING FOUNDATIONS HAVE BEEN DESIGNED TO A MAXIMUM ALLOWABLE NET BEARING PRESSURE OF 2,000 PSF AS PER "GEOTECHNICAL EVALUATION PROPOSED PHASE 2 ATHLETIC FIELD IMPROVEMENTS NORTH ROCKLAND HIGH SCHOOL" PREPARED BY Tectonic Engineering Consultants, Geologists & Land Surveyors, DPC (1279 Route 300, 2nd Floor, Newburgh, NY 12550, 845-567-6656) AND DATED MARCH 22, 2024.
2. CONTINUOUS FOOTING FOUNDATION TO BE PLACED OVER NATURAL SITE SOILS, OR CONTROLLED STRUCTURAL FILL PROVIDED THAT THESE MATERIALS ARE PROPERLY INSPECTED AND COMPACTED AS OUTLINED HEREIN AND IN PROJECT SPECIFICATIONS.
3. IF ANY LOOSE OR UNSUITABLE SOILS ARE ENCOUNTERED WITHIN THE FOOTPRINT OF THE CONCESSION BUILDING FOUNDATIONS, THEY SHOULD BE REMOVED FROM THE ZONE OF INFLUENCE OF THE FOUNDATIONS, AND REPLACED WITH COMPACTED, STRUCTURAL FILL.
4. STRUCTURAL FILL SHALL BE A WELL-GRADED SAND AND GRAVEL, FREE OF DEBRIS AND ORGANIC MATERIAL, WITH A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES, BETWEEN 25% & 60% PASSING THE 1/4" SIEVE SIZE, BETWEEN 5% & 40% PASSING No. 40 SIEVE AND LESS THAN 10% PASSING THE No. 200 SIEVE.
5. ALL GENERAL FILL AND STRUCTURAL FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY, AT NEAR OPTIMUM MOISTURE CONTENTS, AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557). THE DEGREE OF COMPACTION SHOULD BE TESTED AND DOCUMENTED BY A GEOTECHNICAL ENGINEER FOR EACH LIFT OF FILL. THE LIFT THICKNESS FOR THE STRUCTURAL FILL SOILS WILL VARY DEPENDING ON THE TYPE OF COMPACTION EQUIPMENT USED. STRUCTURAL FILL SHOULD GENERALLY BE PLACED IN UNIFORM HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS WHEN USING A 10-TON ROLLER.
6. A GEOTECHNICAL ENGINEER WITH APPROPRIATE FIELD AND LABORATORY SUPPORT SHOULD INSPECT ALL SUBGRADES, APPROVE MATERIALS FOR USE AS FILL, AND TEST BACKFILL MATERIALS FOR COMPLIANCE WITH THE RECOMMENDED COMPACTION.
7. GROUNDWATER PRESENCE IS NOT EXPECTED DURING THE EXCAVATION OF SHALLOW STRUCTURES, PAVEMENT SECTIONS, AND BLEACHERS, BUT COULD BE ENCOUNTERED DURING EXCAVATION OF THE LIGHT POLE FOUNDATIONS SHOULD WATER PRESENCE ENCOUNTERED, EXCAVATION SHALL BE DE-WATERED TO ALLOW INSTALLATION OF FOOTINGS IN DRY ATMOSPHERE.
6. EXCAVATIONS SHALL BE DONE IN ACCORDANCE WITH DIG SAFE NEW YORK PRACTICE.
7. PROVIDE SHORING AND BRACING AS REQUIRED TO CREATE SAFE WORKING ENVIRONMENT AND PREVENT SETTLEMENT OR DAMAGE TO ADJACENT GROUNDS. REMOVE SHORING, BRACINGS WHEN NO LONGER REQUIRED.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ADJACENT BUILDINGS AND PROPERTIES FROM EXCAVATION AND FILLING OPERATIONS. THE DETAILS OF BRACING AND/OR UNDERPINNING REQUIRED FOR THE SUPPORT OF ADJACENT BUILDINGS OR PROPERTIES SHALL BE PREPARED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR.

STRUCTURAL NOTES (CONT.):

CONCRETE FOR FOUNDATIONS:

1. DESIGN OF REINFORCED CONCRETE ARE IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19), AS MODIFIED BY THE 2020 BUILDING CODE OF NEW YORK STATE, SECTION 1905.
2. ALL CONCRETE SHALL BE MIXED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH
   - ACI 301-16 SPECIFICATIONS FOR STRUCTURAL CONCRETE
   - ACI 304R-00 GUIDE FOR MEASURING, MIXING, TRANSPORTING & PLACING CONCRETE
   - ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. SUBMIT PROPOSED MIX DESIGNS WITH PRELIMINARY TEST RESULTS TO THE ENGINEER OF RECORD AND THE SPECIAL INSPECTOR. AFTER ACCEPTANCE, THE CONCRETE TESTING LABORATORY SHALL FILE FORM TR3 WITH THE BUILDING DEPARTMENT PRIOR TO PERMIT. CONCRETE SHALL NOT BE PLACED UNTIL MIXES HAVE BEEN APPROVED.
4. 28 DAY COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE AS FOLLOWS:
   - FOOTINGS ..... 4,000 PSI
   - FOUNDATION WALLS ..... 4,000 PSI
   - SLABS-ON-GROUND ..... 4,000 PSI
5. MAXIMUM CONCRETE SLUMP SHALL BE 4".
6. TEST CYLINDERS SHALL BE TAKEN FROM THE MIXER IN ACCORDANCE WITH ASTM C172-14a "STANDARD PRACTICE FOR SAMPLING FRESHLY MIXED CONCRETE" AND THE PROJECT SPECIFICATIONS.
7. THE METHOD FOR CONVEYING CONCRETE TO THE PLACE OF DEPOSIT SHALL COMPLY WITH CODE ACI PRC-304.4-20 OR ACI PRC-304.2-17.
8. ALL SURFACES OF CONCRETE SHALL BE FORMED FOR FOOTINGS, EXCEPT SURFACES OPEN TO VIEW. REFER TO PROJECT SPECIFICATION SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR FURTHER DESCRIPTION.
9. CONCRETE SHALL BE AIR ENTRAINED 5% TO 7% BY VOLUME, EXCEPT FOR INTERIOR SLABS-ON-GROUND. SEE PROJECT SPECIFICATION SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR FURTHER DESCRIPTION.
10. CONSTRUCTION JOINTS OF CONCRETE COMPONENTS SHALL COMPLY WITH THE PROVISIONS OF CODE ACI 318-19.
11. ROUGHENED SURFACE AT INTERFACE OF SEPARATE CONCRETE POURS (JOINTS) SHALL BE PREPARED AS FOLLOWS:
    a) ROUGHEN SURFACE TO A FULL AMPLITUDE OF APPROXIMATELY ¼" WITH STIFF BROOM AFTER INITIAL SET.
    b) BEFORE PLACING FRESH CONCRETE, CLEAN SURFACE AND REMOVE LAITANCE WITH WIRE BRUSH.
    c) IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, WET SURFACE AND REMOVE STANDING WATER.
14. DO NOT PLACE CONCRETE WITHOUT APPROVED STRUCTURAL SHOP DRAWINGS AND MECHANICAL/ELECTRICAL SHOP DRAWINGS RELATED TO THE CONCRETE WORK. RELATED ITEMS INCLUDE: LOCATIONS OF OPENINGS; PIPE SLEEVES; REGLETS; DOVETAIL SLOTS, DRIPS, INSERTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AND ANY OTHER ITEMS REQUIRED TO BE INSTALLED AND/OR COORDINATED BY THE MECHANICAL AND ELECTRICAL TRADES.
15. FOR LOCATION OF CONCRETE PADS, FLOOR DEPRESSIONS, AND FLOOR DRAINS, SEE MEP DRAWINGS.
16. VERIFY SUPPORT LOCATIONS FOR MEP EQUIPMENT AND ANY OPENINGS WITH MEP TRADES PRIOR TO SUBMISSION OF SHOP DRAWINGS.
17. ALL ANCHOR BOLTS OR THREADED RODS SHALL BE EITHER PRE-CAST, EXPANSION, OR ADHESIVE ANCHORS AS SHOWN ON DRAWINGS.
18. CONTRACTOR TO VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE AND CONDUIT SLEEVES, CORING ETC. REQUIRED FOR WORK OF OTHER DIVISIONS. SLEEVE, CORING AND PIPING/CONDUIT PENETRATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD TO ENSURE STRUCTURE IS NOT COMPROMISED. PROVIDE WATERTIGHT SLEEVES AT ALL NEW PIPE PENETRATIONS THROUGH WALLS.

CONCRETE REINFORCEMENT:

1. ALL REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS AND SHALL CONFORM TO ASTM A615 GRADE 60. WELDED WIRE FABRIC (WIRE MESH) SHALL CONFORM TO ASTM A185.
2. THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS CONSISTING OF COMPLETE PLANS AND DETAILS OF REINFORCEMENT, LOCATIONS OF POUR LINES, CONSTRUCTION JOINTS, ETC. FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.
3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL COMPLY WITH THE REQUIREMENTS OF ACI 315-99 AND ACI 318-14, CHAPTERS 7 AND 12.
4. ALL SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-14, CHAPTER 12. THE LOCATIONS SHALL BE INDICATED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER OF RECORD. GENERALLY, ALL SPLICES SHALL BE STAGGERED AND LOCATED AWAY FROM THE SECTION OF MAXIMUM TENSILE STRESS.
5. ALL REINFORCEMENT SHALL BE ACCURATELY PLACED AND SECURELY WIRED TO PREVENT DISLOCATION FROM PROPER POSITION.
6. PROVIDE CHAIRS FOR SUPPORT OF ALL REINFORCEMENT. LIFTING OF BARS OR MESH DURING PLACEMENT OF CONCRETE IS NOT PERMITTED.
10. CONCRETE PROTECTION FOR BARS IN FOUNDATIONS SHALL BE:
    a. WALLS (EXPOSED TO WEATHER) ..... 2"
    b. FOOTINGS AND WALLS (EXPOSED TO SOIL) .... 3"
11. CONCRETE PROTECTION FOR BARS IN SLAB SHALL BE:
    a. INTERIOR ..... ¾"
    b. EXPOSED TO WEATHER/ELEMENTS ..... 2"
8. WELDING OF REINFORCING BARS SHALL CONFORM TO STRUCTURAL WELDING CODE AWS D1.4.
9. THE DETAILING OF REINFORCEMENT AND CONNECTION BETWEEN CONCRETE MEMBER AS RELATED TO REQUIREMENTS FOR STRUCTURAL INTEGRITY SHALL COMPLY WITH PROVISIONS OF ACI 318-19, SECTION 7.13.

STRUCTURAL NOTES (CONT.):

PRE-CAST CONCRETE UNITS:

1. PRECAST UNITS TO BE DESIGNED, DETAILED, MANUFACTURED, DELIVERED, AND INSTALLED BY THE MANUFACTURER AS PER CONTRACT.
2. CONTRACTOR TO PROVIDE FREE ACCESS AT JOB SITE FOR DELIVERY, INCLUDING TEMPORARY ROADWAYS, CRANE PAD, AND CRANE PATH.
3. PRECAST CONCRETE UNITS MUST BE LIFTED WITH SLINGS OR LIFTING EYES UNLESS NOTED OTHERWISE.
4. DO NOT LIFT, STORE, OR SUPPORT SLABS IN MIDDLE UNLESS NOTED OTHERWISE.
5. USE BEARING STRIPS UNDER ENDS OF SLAB BEARING ON PRECAST, MASONRY, AND CAST-IN-PLACE CONCRETE.
6. LEVEL THE SLAB AND GROUT JOINTS.
7. GROUTING OF LONGITUDINAL SLAB JOINTS BY MANUFACTURER AS PER CONTRACT.
8. GROUTING OF SLAB BUTT JOINTS AND END CELLS (IF REQUIRED) BY MANUFACTURER AS PER CONTRACT.
9. ALL OPENINGS UNDER CONTRACT MUST BE SHOWN ON LAYOUT DRAWING UNLESS NOTED OTHERWISE.
10. ANY TOPPING, MESH, AND DRILLING OR CUTTING OF HOLES 12" OR SMALLER IN ANY DIRECTION IS BY GENERAL CONTRACTOR.
11. NO PRESTRESSING STRAND AND/OR REINFORCING SHALL BE CUT IN FIELD UNLESS APPROVED BY THE MANUFACTURER.
12. NO WALLS, PIPE, CONDUIT, OR OTHER OBJECTS TO EXTEND ABOVE AND OVER BEARING SURFACE, U.N.O.
13. ALL TRADES ARE TO REMAIN OFF DECK AREAS UNTIL FIELD CREWS HAVE COMPLETED ERECTING, LEVELING, AND GROUTING.
14. MODIFICATIONS REQUIRED DUE TO FIELD SURVEY SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
15. ANY AND ALL HARDWARE SUPPLIED BY PRECAST CONCRETE UNITS MANUFACTURER IS INDICATED BY A UNIQUE AND DISTINCT NUMBER ON THE ERECTION DRAWINGS. ALL OTHER HARDWARE SHOWN IS BY GENERAL CONTRACTOR EVEN IF NOT EXPLICITLY STATED.
16. ALL SURFACES FOR SLAB BEARING MUST BE SOLID AND HAVE THE VOIDS FILLED OR HAVE A BOND BEAM IN PLACE.
17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRUE AND LEVEL BEARING SURFACES FOR PRECAST CONCRETE SUPPORT.

DESIGN CRITERIA:

DESIGN LOADS ARE IN ACCORDANCE WITH ASCE 7-16 & 2020 NEW YORK STATE BUILDING CODE

1. OCCUPANCY GROUP ..... E FOR ROOFTOP UNITS; A-5 FOR GRANDSTAND/BLEACHERS; B FOR PRESS BOX
2. LIVE LOADS:
   a. FLOOR ..... 100 psf
   b. ROOF ..... 100 psf
4. WIND LOADS:
   a. RISK CATEGORY III
   b. ULTIMATE WIND SPEED ..... 122 mph
   c. EXPOSURE CATEGORY ..... B
   d. IMPORTANCE FACTOR ..... Iw=1
   e. BASE PRESSURE ..... gh=23 psf
5. SNOW LOADS:
   a. GROUND SNOW LOAD ..... Pg=30.0 psf
   b. IMPORTANCE FACTOR ..... Is=1.10
   c. THERMAL FACTOR ..... Ct=1.00
   d. SNOW EXPOSURE FACTOR ..... Ce=0.90
   e. FLAT ROOF SNOW LOAD ..... Pf=20.8 psf
   f. SLOPED-ROOF FACTOR ..... Cs=1.00
   g. DESIGN UNIFORM ROOF SNOW LOAD ..... 22.0 psf
6. SEISMIC LOADS:
   a. RISK CATEGORY III
   b. SITE CLASS ..... D
   c. SEISMIC DESIGN CATEGORY ..... B
   d. IMPORTANCE FACTOR ..... Ie=1.25
   e. MAPPED SPECTRAL RESPONCE ACCELERATIONS ..... Ss=0.288 g; S1=0.061 g

STRUCTURAL NOTES (CONT.):

STRUCTURAL STABILITY NOTE:

1. THE STRUCTURES SHALL BE ADEQUATELY GUYED AND BRACED TO MAINTAIN SAFETY AND ALIGNMENT DURING ALL PHASES OF CONSTRUCTION. SUCH GUYING AND BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE HAS REACHED ADEQUATE STRENGTH AND/OR ALL PERMANENT BRACING IS IN PLACE. ENSURE THAT CONSTRUCTION OPERATIONS AND PROCEDURES IMPOSE NO LOADING GREATER THAN THE DESIGN LOADS ON ANY MEMBER.

SPECIAL INSPECTIONS:

SPECIAL & PROGRESS INSPECTIONS REQUIRED BY THE 2020 NEW YORK STATE BUILDING CODE SHALL BE PERFORMED BY A TESTING AGENCY ENGAGED BY THE OWNER (NOT TO BE PERFORMED BY THE ENGINEER OF RECORD, EXCEPT FINAL INSPECTION) FOR THE FOLLOWING ITEMS:

- HIGH-STRENGTH BOLTS, NUTS, AND WASHERS MATERIAL VERIFICATION

INSPECTION	REF. STANDARD	BC REF.
STEEL CONSTRUCTION:		
• HIGH-STRENGTH BOLTS, NUTS, AND WASHERS MATERIAL VERIFICATION	ANSI/AISC 360-16: Table N5.6-1	1705.2.1
• HIGH-STRENGTH BOLTING INSPECTIONS	ANSI/AISC 360-16: Table N5.6-2 & Table N5.6-3	
• MATERIAL VERIFICATION OF STRUCTURAL STEEL:	ANSI/AISC 360-16: N5.1, N5.2	
• MATERIAL VERIFICATION OF WELD FILLER MATERIALS	ANSI/AISC 360-16: Table N5.4-1	
• INSPECTION OF WELDING	ANSI/AISC 360-16: Table N5.4-2 & Table N5.4-3	
• WELDER QUALIFICATION/CERTIFICATION AND WELDING PROCEDURES VERIFICATION	ANSI/AISC 360-16: Table N5.4-1	
• COLD-FORMED STEEL DECK	SDI-QA/QC-2017	1705.2.2
CONCRETE CONSTRUCTION:		
• INSPECTION OF REINFORCING STEEL AND PLACEMENT VERIFICATION	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1905 Table 1705.3 and 1908.4
• INSPECTION OF ANCHORS CAST IN CONCRETE	ACI 318: 17.8.2	Table 1705.3
• INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	ACI 318: 17.8.2.4 ACI 381: 17.8.2	Table 1705.3
• VERIFYING USE OF REQUIRED DESIGN MIX	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1 1904.2 1908.2, 1908.3 Table 1705.3
• PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMP. OF THE CONCRETE	ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.10 Table 1705.3
• INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318: 26.5	1908.6 1908.7 1908.8, Table 1705.3
• VERIFICATION OF THE MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI 318: 26.5.3 - 26.5.5	1908.9, Table 1705.3
• FORMWORK INSPECTION FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	ACI 318: Ch. 26.11.1.2(b)	Table 1705.3
SOILS:		
• PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	Geotech Report Construction Documents	1705.6 Table 1705.6
• VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		
• PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		
FINAL INSPECTION:		--

LEGEND & ABBREVIATIONS:

———	NEW STRUCTURAL STEEL	N.S.	NEAR SIDE
———	NEW BRACING	℄	CENTERLINE
◀▶	MOMENT CONNECTION	PL	PLATE
B.O.S.	BOTTOM OF STEEL	DN	DOWN
T.O.S.	TOP OF STEEL	EQ	EQUAL
T.O.G.	TOP OF GRATING	SIM	SIMILAR
T.O.R.	TOP OF RAIL	TYP	TYPICAL
T.O.C.	TOP OF CONCRETE	V.I.F.	VERIFY IN FIELD
EL.	ELEVATION	K.B.	KNEE BRACE
E.S.	EACH SIDE	H.B.	HORIZONTAL BRACE
F.S.	FAR SIDE	V.B.	VERTICAL BRACE

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
49 LONG ALLEY, SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
ENGINEERS & CONSULTANTS
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBL# 60-02-01-08-0-016-006
PRESS BOX – SOFTBALL: SBL# 60-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBL# 60-02-01-05-7-001-001
100 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
STRUCTURAL GENERAL NOTES

Drawing No.
S-001

HOME TEAM DUGOUT
SEE PLAN 1/S-103

BASEBALL BLEACHER,
SEE PLAN 1/S-101

SCOREBOARD, SEE
DETAIL 4/S-301

VISITING TEAM DUGOUT
SEE PLAN 3/S-103

SCOREBOARD, SEE
DETAIL 5/S-301

HOME TEAM DUGOUT PLANS
SEE PLAN 1/S-103

SOFTBALL BLEACHER, SEE
PLAN 1/S-102

VISITING TEAM DUGOUT PLAN
SEE PLAN 3/S-103

HOCKEY PRESS BOX
SEE PLAN 1/S-104

KEY PLAN

1 SITE PLAN
SCALE: 1" = 50'- 0"

1/2" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
5 BOURNE ROAD, SUITE 202
SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL - SBM# 60-02-01-06-0-016-026
PRESS BOX - SOFTBALL SBM# 60-02-01-06-7-000-001
PRESS BOX - BASEBALL SBM# 60-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

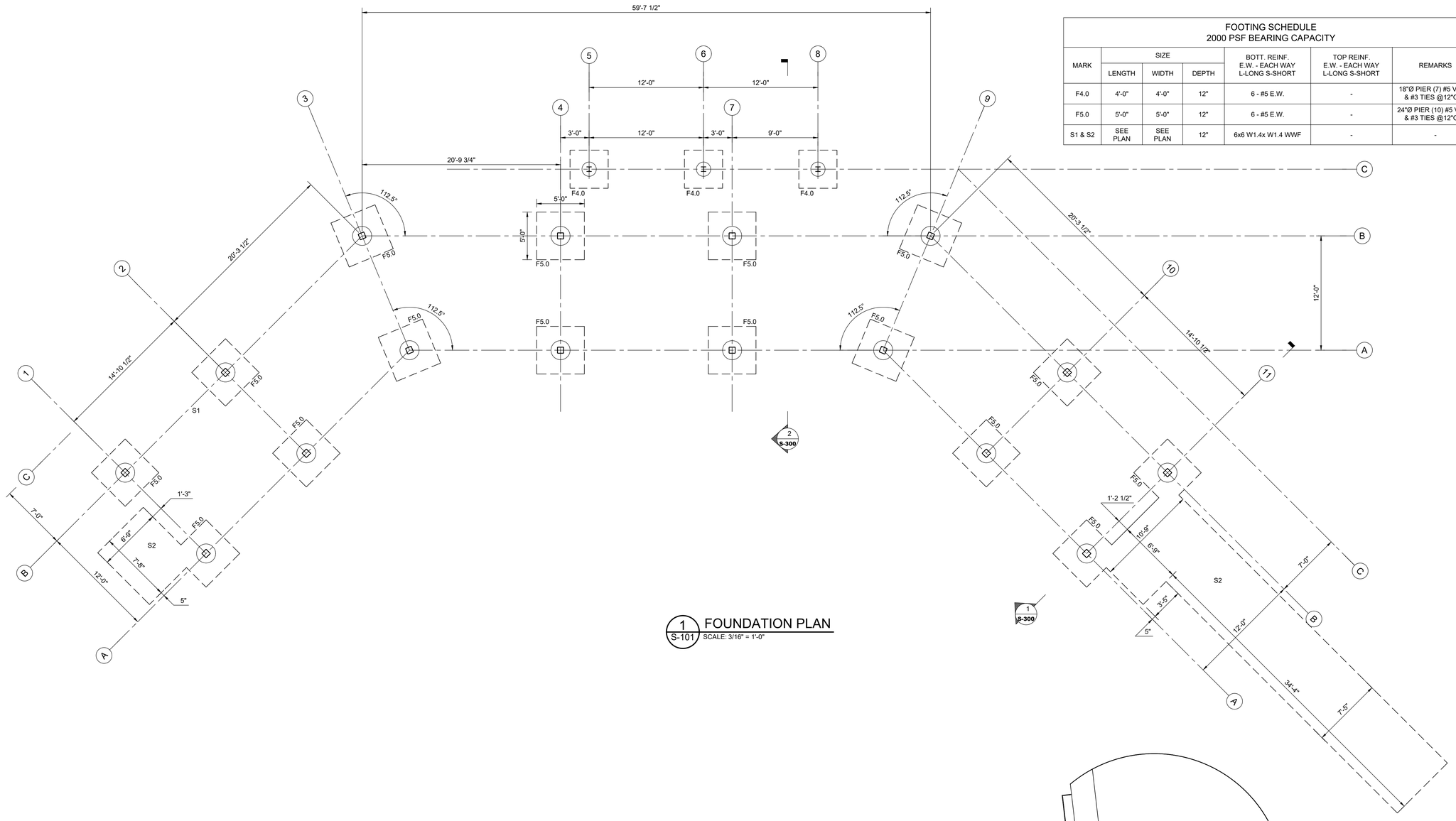
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
BASE PLAN

Drawing No.
S-100

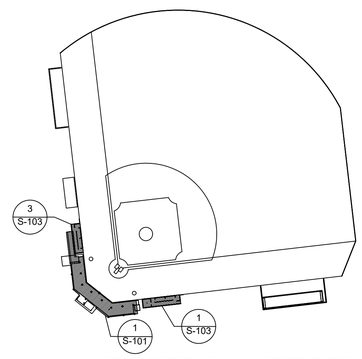
FOOTING SCHEDULE 2000 PSF BEARING CAPACITY						
MARK	SIZE			BOTT. REINF. E.W. - EACH WAY L-LONG S-SHORT	TOP REINF. E.W. - EACH WAY L-LONG S-SHORT	REMARKS
	LENGTH	WIDTH	DEPTH			
F4.0	4'-0"	4'-0"	12"	6 - #5 E.W.	-	18"Ø PIER (7) #5 VERT. & #3 TIES @12"O.C.
F5.0	5'-0"	5'-0"	12"	6 - #5 E.W.	-	24"Ø PIER (10) #5 VERT. & #3 TIES @12"O.C.
S1 & S2	SEE PLAN	SEE PLAN	12"	6x6 W1.4x W1.4 WWF	-	-



1 FOUNDATION PLAN
S-101 SCALE: 3/16" = 1'-0"

GRANDSTAND DEFERRED SUBMITTED NOTES:

1. GRANDSTAND SHOWN HEREIN INDICATE SCOPE OF WORK AND DESIGN INTENT ONLY. FINAL ENGINEERED DRAWINGS PROVIDED BY THE GRANDSTAND MANUFACTURER SHALL BE SUBMITTED FOR FINAL APPROVAL PRIOR TO CONSTRUCTION. GRANDSTAND SHALL BE DESIGNED AND FABRICATED PER APPLICABLE LOADS AS INDICATED ON DRAWING NO. S-001. SUBMIT GRANDSTAND DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.



BASEBALL KEY PLAN

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 RESEARCH PLACE, ROUTE 9A
SUITE 202, ROTTERDAM, NY 12001

NORTH ROCKLAND HIGH SCHOOL
FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL - SBL# 50-02-01-08-0-016-000
PRESS BOX - SOFTBALL - SBL# 50-02-01-07-0-001-001
PRESS BOX - BASEBALL - SBL# 50-02-01-08-0-001-001

100 Hammond Rd.
Pomona, NY 10954

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

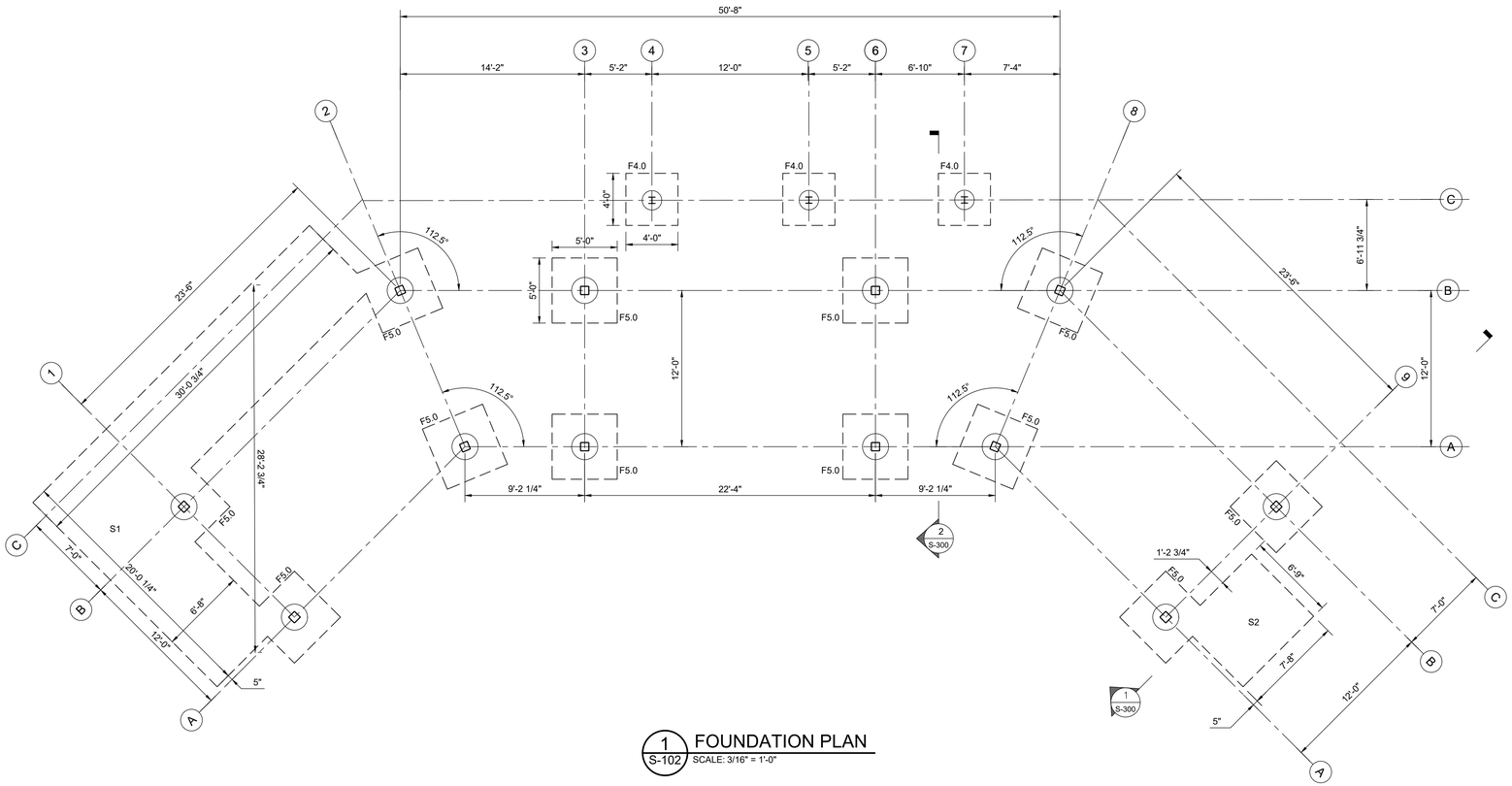
Drawing Title
BASEBALL BLEACHER FOUNDATION PLAN

Drawing No.
S-101

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

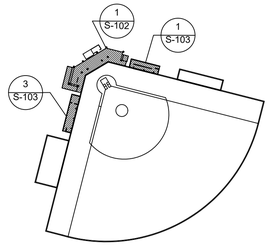
FOOTING SCHEDULE 2000 PSF BEARING CAPACITY						
MARK	SIZE			BOTT. REINF. E.W. - EACH WAY L-LONG S-SHORT	TOP REINF. E.W. - EACH WAY L-LONG S-SHORT	REMARKS
	LENGTH	WIDTH	DEPTH			
F4.0	4'-0"	4'-0"	12"	6 - #5 E.W.	-	18"Ø PIER (7') #5 VERT. & #3 TIES @12"O.C.
F5.0	5'-0"	5'-0"	12"	6 - #5 E.W.	-	24"Ø PIER (10) #5 VERT. & #3 TIES @12"O.C.
S1 & S2	SEE PLAN	SEE PLAN	12"	6x6 W1.4x W1.4 WWF	-	-



1 S-102 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

GRANDSTAND DEFERRED SUBMITTED NOTES:

1. GRANDSTAND SHOWN HEREIN INDICATE SCOPE OF WORK AND DESIGN INTENT ONLY. FINAL ENGINEERED DRAWINGS PROVIDED BY THE GRANDSTAND MANUFACTURER SHALL BE SUBMITTED FOR FINAL APPROVAL PRIOR TO CONSTRUCTION. GRANDSTAND SHALL BE DESIGNED AND FABRICATED PER APPLICABLE LOADS AS INDICATED ON DRAWING NO. S-001. SUBMIT GRANDSTAND DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.



SOFTBALL KEY PLAN

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN INC
ENGINEERS, PLANNERS
SUITE 202, RIVERSIDE, NY 10801

NORTH ROCKLAND HIGH SCHOOL
FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-08-0-016-000
PRESS BOX – SOFTBALL: SBL# 50-02-01-07-0-001-001
PRESS BOX – BASEBALL: SBL# 50-02-01-08-0-001-001

190 Haverstraw Rd.
Suffern, NY 10954

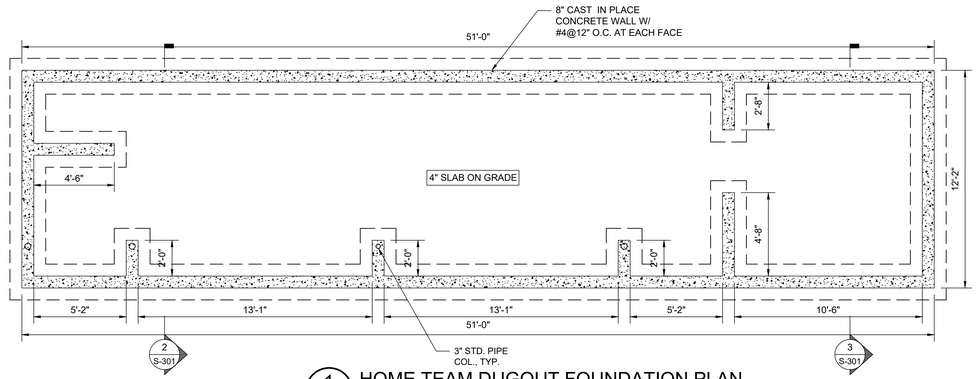
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

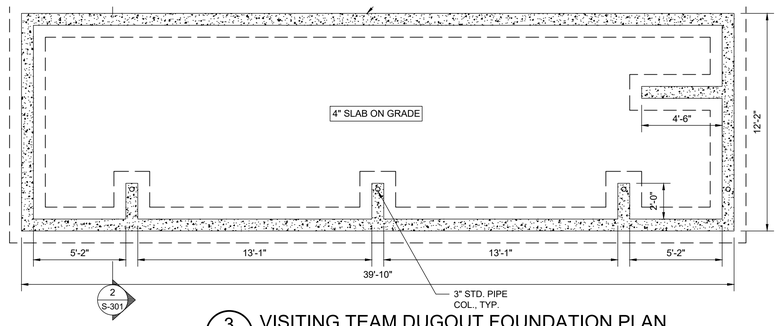
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
SOFTBALL BLEACHER FOUNDATION PLAN

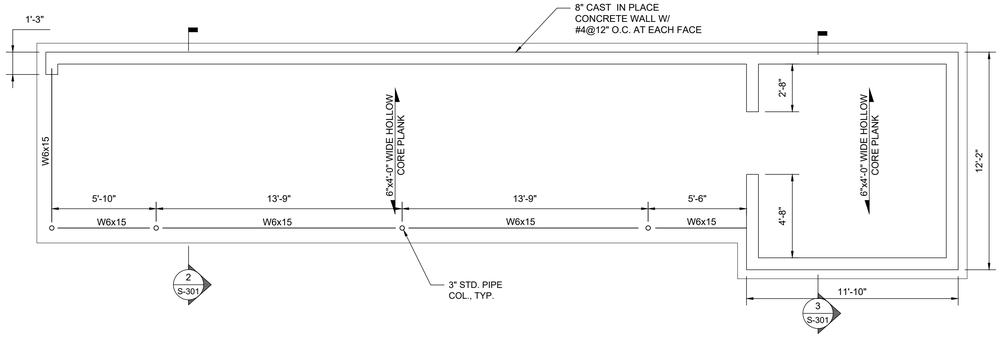
Drawing No.
S-102



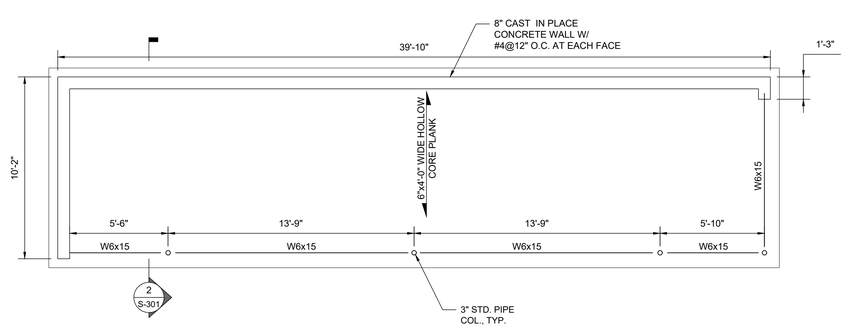
1 S-106 HOME TEAM DUGOUT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



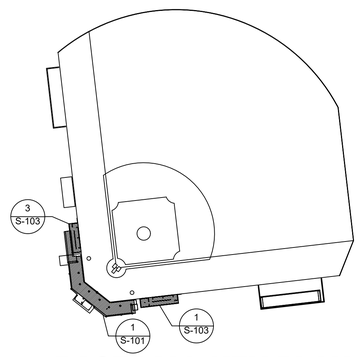
3 S-106 VISITING TEAM DUGOUT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



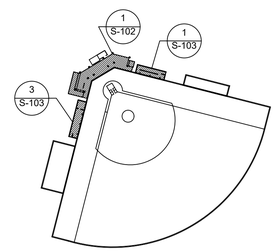
2 S-106 HOME TEAM DUGOUT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



4 S-106 VISITING TEAM DUGOUT FRAMING PLAN
SCALE: 1/4" = 1'-0"



BASEBALL KEY PLAN



SOFTBALL KEY PLAN

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

1/2 0 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	S.I.
Checked by	RAB
Project No.	43045
Scale	AS NOTED
Date	09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
8 SOUTHWOODS BOULEVARD
SUITE 202, ROTTERDAM, NY 12001
Structural & MEP Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBDM 50-02-01-06-0-015-038
PRESS BOX – SOFTBALL SBDM 50-02-01-06-7-000-001
PRESS BOX – TRACKBALL SBDM 50-02-01-06-7-001-001

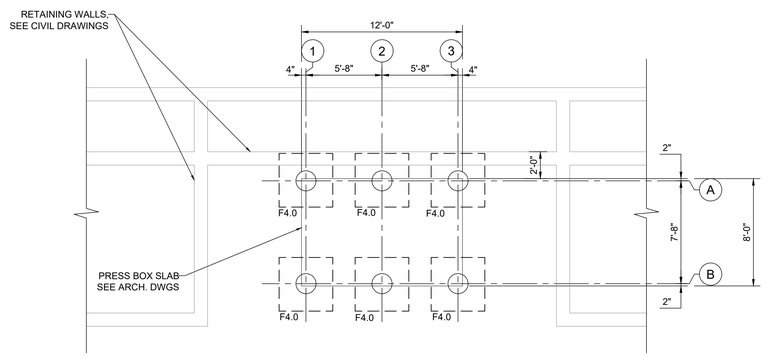
106 Hammond Rd.
Thiells, NY 10984

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-9200
www.shilale.com

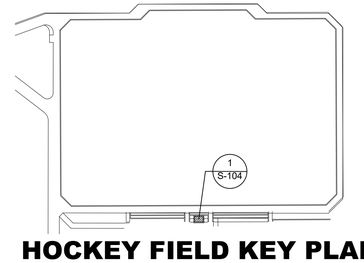
Drawing Title
DUGOUTS
STRUCTURAL PLAN

Drawing No.
S-103



1 S-104 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

FOOTING SCHEDULE 2000 PSF BEARING CAPACITY						
MARK	SIZE			BOTT. REINF. E.W. - EACH WAY L-LONG S-SHORT	TOP REINF. E.W. - EACH WAY L-LONG S-SHORT	REMARKS
	LENGTH	WIDTH	DEPTH			
F4.0	4'-0"	4'-0"	12"	6 - #5 E.W.	-	18"Ø PIER (7) #5 VERT. & #3 TIES @12"O.C.



HOCKEY FIELD KEY PLAN

© COPYRIGHT: MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
18 COMPUTER DRIVE WEST
SUITE 202, ALBANY, NY 12065

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL SBD# 50-05-01-06-0-015-008
PRESS BOX - SOFTBALL SBD# 50-05-01-06-7-000-001
PRESS BOX - BASEBALL SBD# 50-05-01-06-7-001-001

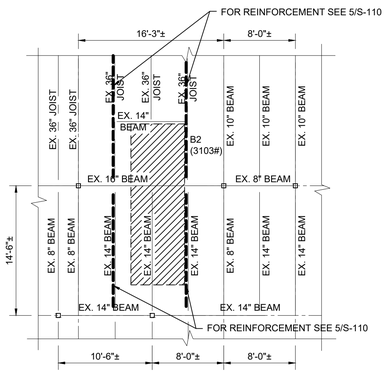
100 Hammond Rd.
Blauvelt, NY 10994

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

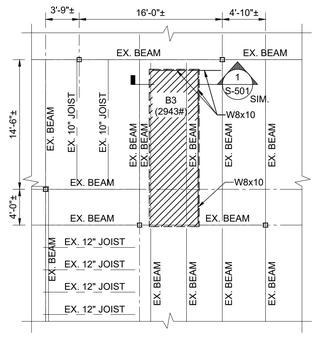
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-9209
www.shilale.com

Drawing Title
HOCKEY PRESS BOX
FOUNDATION PLAN

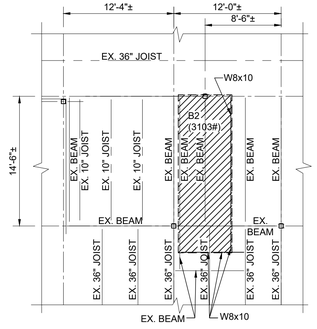
Drawing No.
S-104



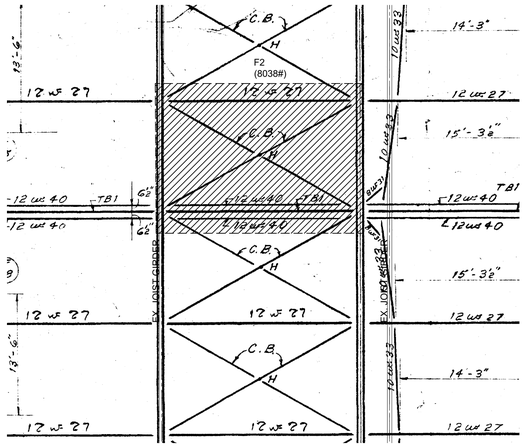
1 S-110 PARTIAL ROOF FRAMING
SCALE: 1/8" = 1'-0"



2 S-110 PARTIAL ROOF FRAMING
SCALE: 1/8" = 1'-0"



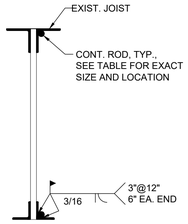
3 S-110 PARTIAL ROOF FRAMING
SCALE: 1/8" = 1'-0"



4 S-110 PARTIAL ROOF FRAMING
SCALE: 1/8" = 1'-0"

NOTES:

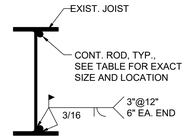
1. THIS DRAWING IS SHOWN TO INDICATE THE STRUCTURAL MEMBERS THAT REQUIRE REINFORCEMENT. SEE NOTES AND DETAILS ON DRAWING S-512 FOR AN ACCURATE LENGTH OF ALL REINFORCEMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE EXISTING CONDITIONS. SUBMIT SHOP DRAWINGS WHICH REFLECT THE FIELD CONDITIONS PRIOR TO FABRICATION.



JOIST SIZE	UNITS SUPPORTED	# OF RODS	ROD DIA. (IN)	REMARKS
36LJ15	B2 & B3	2	3/4	SEE NOTES 1 AND 2
36LJ09	H1	2	3/4	SEE NOTES 1 AND 2

NOTE:
1. START CONTINUOUS RODS AT 12" DISTANCE FROM NEAR END SUPPORT AND END AT 15' BEYOND EDGE OF UNIT, SEE DETAIL 3 ON THIS SHEET.
2. REINFORCING RODS SHALL BE CONTINUOUS AND NOT INTERRUPTED.

5 TYPICAL EXISTING STEEL BEAM REINFORCEMENT DETAIL
SCALE: N.T.S.



BEAM SIZE	UNITS SUPPORTED	# OF RODS	ROD DIA. (IN)	REMARKS
14B22	B2, B3 & H1	2	1 1/2	SEE NOTES 1 AND 2
10B15	H1	2	1/2	SEE NOTES 1 AND 2
12WF40	F2	2	1	SEE NOTES 1 AND 2
12WF27	F2	2	3/4	SEE NOTES 1 AND 2

NOTE:
1. START AND END CONTINUOUS RODS AT A 12" DISTANCE FROM BEAM SUPPORTS.
2. REINFORCING RODS SHALL BE CONTINUOUS AND NOT INTERRUPTED.

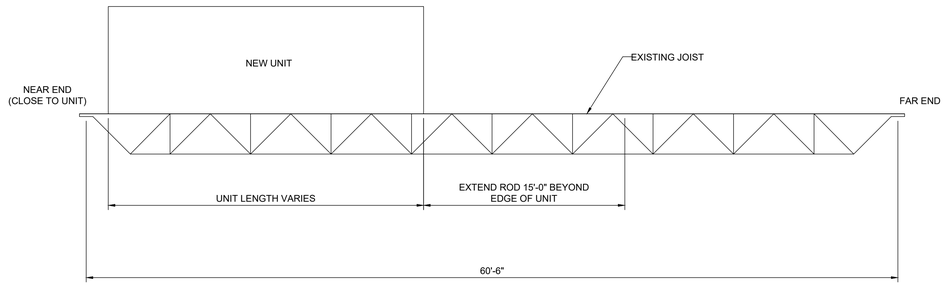
DESIGN CRITERIA:

1. DEAD LOAD: 29 PSF

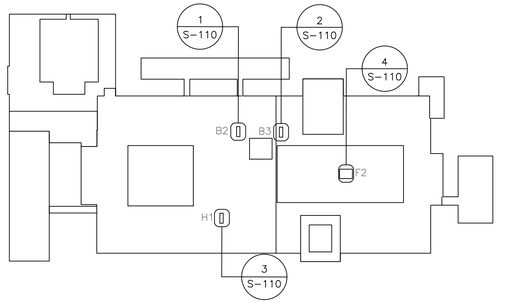
   ROOF BUILT-UP 5 PSF
   METAL DECK 1 PSF
   PERLITE 13 PSF
   SOLAR PANELS 10 PSF
   UNITS WEIGHT (SEE BELOW)
   B2 3103 LBS
   B3 2943 LBS
   H1 3120 LBS
   F2 7988 LBS

2. GROUND SNOW LOAD: 30 PSF
   SNOW DRIFT LOAD IS ADDED TO THE CALCULATIONS AS PER CODE REQUIREMENTS

3. ULTIMATE WIND SPEED: 122 MPH



6 TYPICAL EXISTING JOIST ELEVATION REINFORCEMENT DETAIL
SCALE: N.T.S.



KEY PLAN

TRUE NORTH

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
PARTIAL ROOF PLANS

Drawing No.
S-110

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9500
www.shilale.com

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-09-0-016-000
PRESS BOX – SOFTBALL: SBL# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001
100 Hammond Rd.
Thiells, NY 10984

TOWN OF STONY POINT
COUNTY OF ROCKLAND

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

1/2" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

Drawn by	S.I.
Checked by	RAB
Project No.	43045
Scale	AS NOTED
Date	09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE DRIVE, 3RD FLOOR
SUITE 202, SUFFERN, NY 10901

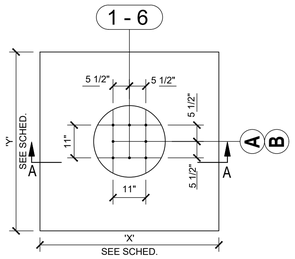
FOOTING MARKS	FOOTING DIMS 'X' x 'Y' x 'D'	MIN. EMBED 'W'	FOOTING REINFORCEMENT	PIER SIZE 'Z'	PIER REINFORCING		T/PIER/SLAB ELEVATION	18" ANCHOR BOLTS	FINISH x DIA. x LEN. x THRD LEN.
					VERTICAL	TIES**			
F1	5'-0" x 5'-0" x 12"	4'-0"	(6) #5 E.W., BOTTOM	24"	(10) #5 REBAR	#3 REBAR TIES @ 12" O/C	100'-0"	4	(4) GALV. 3/4" x 18" BOLT-THREADED 6"
F2	4'-0" x 4'-0" x 12"	4'-0"	(6) #5 E.W., BOTTOM	18"	(7) #5 REBAR	#3 REBAR TIES @ 12" O/C	100'-0"	4	-
S1	SEE PLAN	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"	-	-
S2	SEE PLAN	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"	-	-

**BEGIN 1ST TIE 2" BELOW TOP, 2ND TIE @ 3-1/2" BELOW TOP, REMAINDER PER CHART.

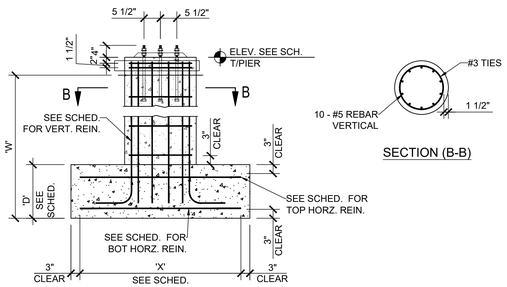
F1	FOOTER #1	RS1	RAMP/STAIR PIER #1	E.W.	EACH WAY
CB2	CURB #1	RW1	RETAINING WALL #1	E.F.	EACH FACE
P1	PIER #1	S1	SLAB #1	T&B	TOP & BOTTOM
PF2	PIER/FOOTER #1	TE1	THICKENED EDGE #1	O/C	ON CENTER

FOUNDATION - CAST IN PLACE CONCRETE

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. 2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615. BARS SHALL BE GRADE 60.
3. CONCRETE MIX SHALL BE DESIGNED TO PROVIDE A COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
4. REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
5. REBARS SHALL BE CONTACT LAP SPLICED 30 BAR DIAMETERS.
6. ALL SLABS TO HAVE WELDED WIRE FABRIC 6x 6x 1.4 x1.4 CONFORMING TO ASTM A185. OR FIBREMESH.
7. AFTER EXCAVATING SOIL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. (ASTM - D-1557)
8. GROUT SHALL BE NON SHRINK, NATURAL AGGREGATE MASTER BUILDERS SET GROUT OR APPROVED EQUAL.



PLAN VIEW

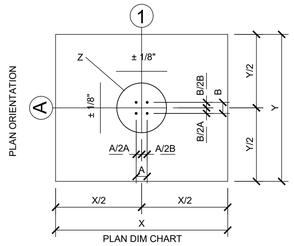


SECTION (A-A)

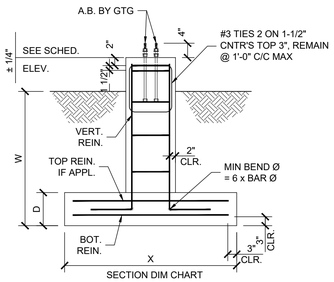
SECTION (B-B)

1 PIER/FOOTING @COL MOMENT CONN.
SCALE 3/8" = 1'-0"

PLAN ORIENTATION



PLAN DIM CHART

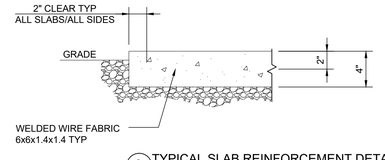


SECTION DIM CHART

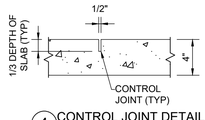
CONCRETE PIER AND ANCHOR ROD TOLERANCES

HORIZONTAL LOCATION ± 1/8"
VERTICAL LOCATION ± 1/4"
THE ABOVE TOLERANCES MUST BE HELD
FOR PROPER GRANDSTAND INSTALLATION
(UNLESS NOTED OTHERWISE)

2 FOUNDATION - CAST IN PLACE CONCRETE
SCALE 3/8" = 1'-0"



3 TYPICAL SLAB REINFORCEMENT DETAIL
SCALE 1 1/2" = 1'-0"



4 CONTROL JOINT DETAIL
SCALE 1 1/2" = 1'-0"

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
FOUNDATION DETAILS & SECTIONS

Drawing No.
S-200

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

NORTH ROCKLAND
HIGH SCHOOL
FIELDS – PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL SBED# 50-02-01-06-0-016-026
PRESS BOX – SOFTBALL SBED# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SBED# 50-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

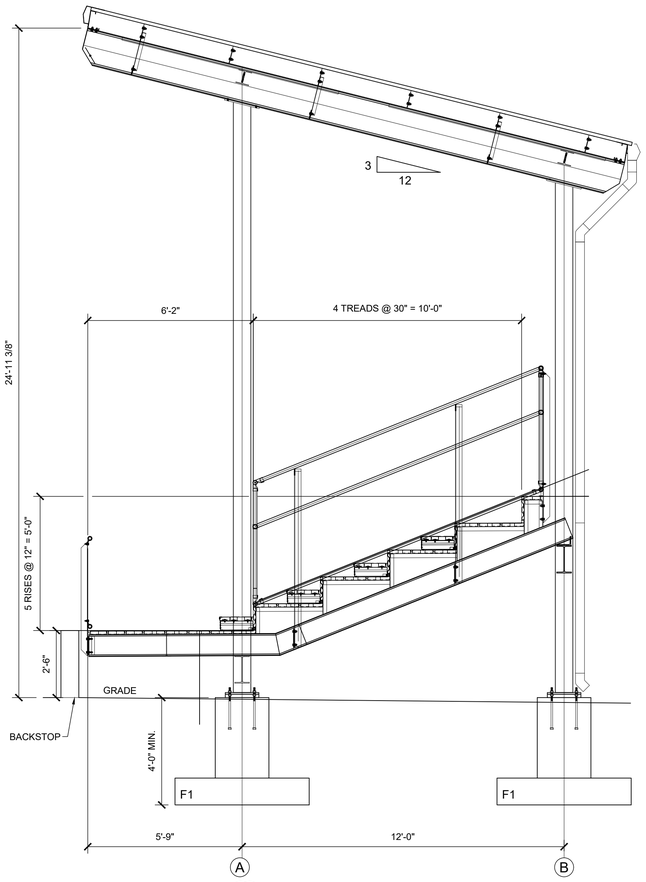
No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

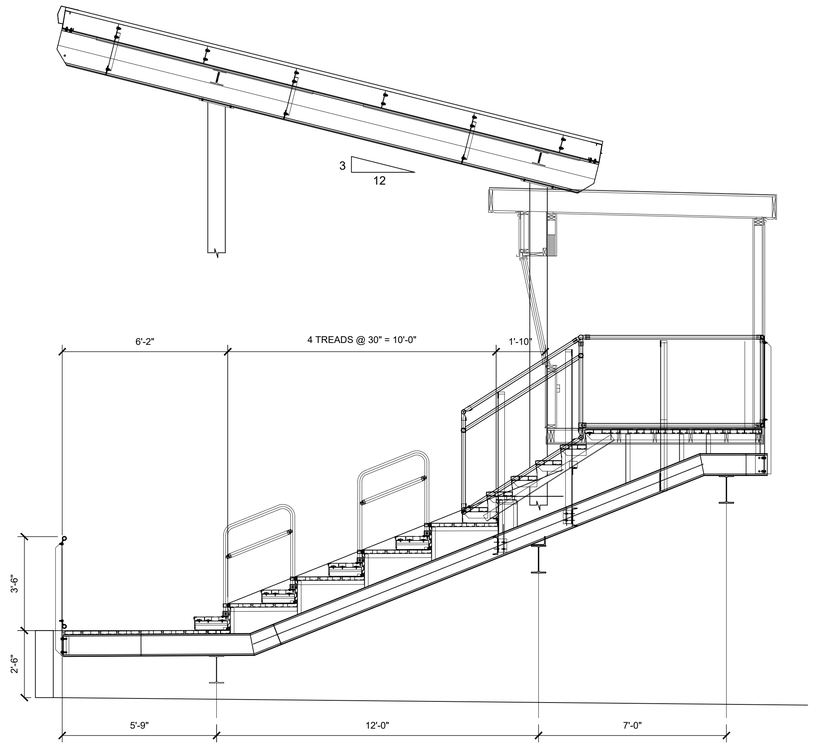
Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN INC
2 EDGEWATER DRIVE, NORWOOD
SUITE 202, SUFFERN, NY 10901

1/2" 0 1 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE



1 S-300 SECTION
SCALE: 3/8" = 1'-0"



2 S-300 SECTION
SCALE: 3/8" = 1'-0"

GRANDSTAND DEFERRED SUBMITTED NOTES:

1. GRANDSTAND SHOWN HEREIN INDICATE SCOPE OF WORK AND DESIGN INTENT ONLY. FINAL ENGINEERED DRAWINGS PROVIDED BY THE GRANDSTAND MANUFACTURER SHALL BE SUBMITTED FOR FINAL APPROVAL PRIOR TO CONSTRUCTION. GRANDSTAND SHALL BE DESIGNED AND FABRICATED PER APPLICABLE LOADS AS INDICATED ON DRAWING NO. S-001. SUBMIT GRANDSTAND DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
1 METROPOLITAN AVENUE
SUITE 202, RIVERHEAD, NY 11901

NORTH ROCKLAND HIGH SCHOOL
FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-05-0-016-026
PRESS BOX – SOFTBALL: SBL# 50-02-01-05-0-004-001
PRESS BOX – BASEBALL: SBL# 50-02-01-05-0-001-001

190 Hammond Rd.
Thiells, NY 10984

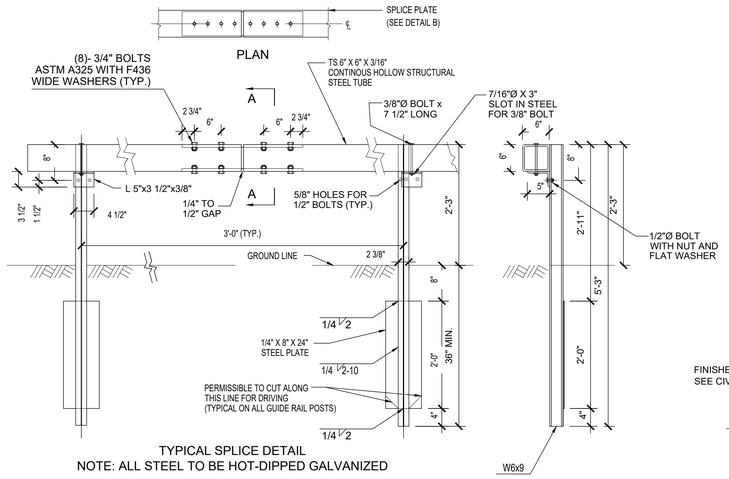
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8500
www.shilale.com

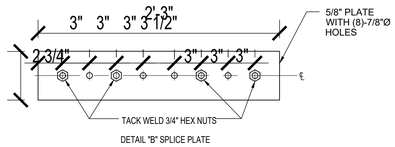
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
BLEACHER FRAMING SECTIONS

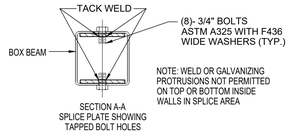
Drawing No.
S-300



TYPICAL SPLICE DETAIL
NOTE: ALL STEEL TO BE HOT-DIPPED GALVANIZED

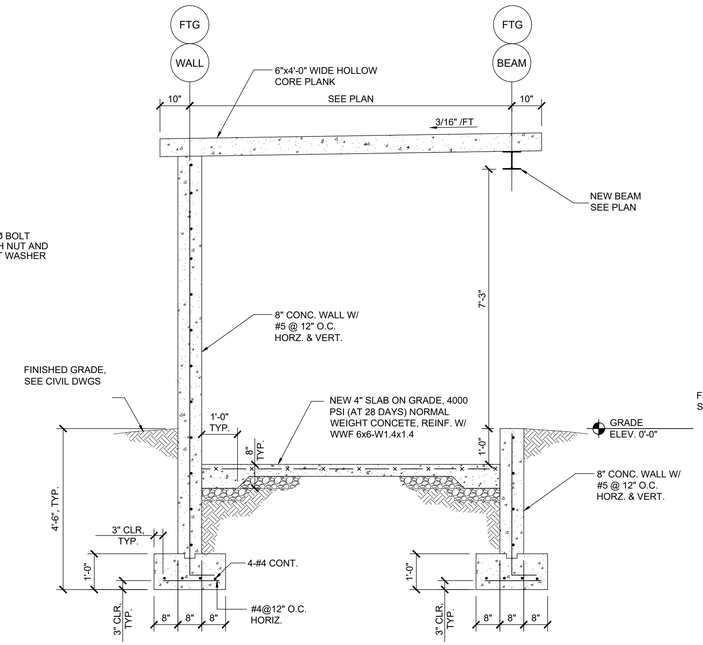


DETAIL "B" SPLICE PLATE

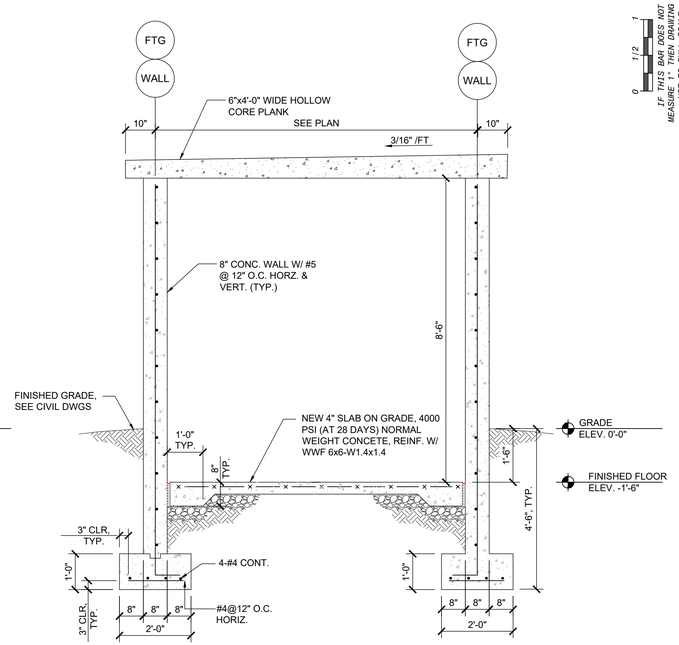


SECTION A-A
SPLICE PLATE SHOWING
TAPPED BOLT HOLES

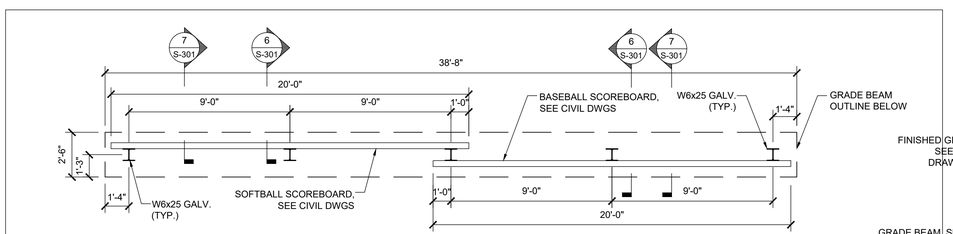
1 S-301 GUARDRAIL DETAIL
SCALE: NOT TO SCALE



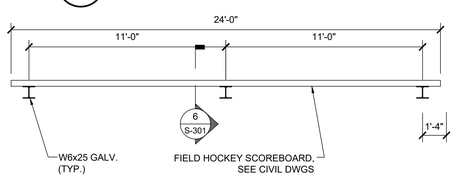
2 S-301 DUGOUT SECTION
SCALE: 1/2" = 1'-0"



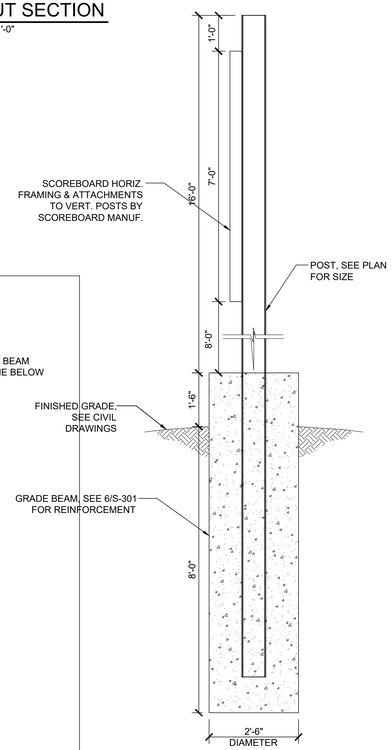
3 S-301 DUGOUT SECTION
SCALE: 1/2" = 1'-0"



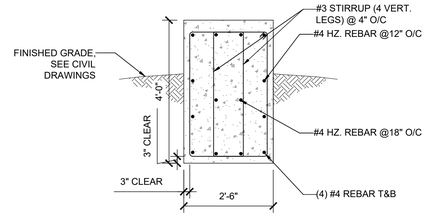
4 S-301 BASEBALL/SOFBALL SCOREBOARD PLAN
SCALE: 1/2" = 1'-0"



5 S-301 FIELD HOCKEY SCOREBOARD PLAN
SCALE: 1/2" = 1'-0"



6 S-301 SECTION THRU SCOREBOARD POST
SCALE: 1/2" = 1'-0"



7 S-301 GRADE BEAM SECTION
SCALE: 3/4" = 1'-0"

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by S.I.
Checked by RAB
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
5 COMPUTER DRIVE WEST
SUITE 202, ALBANY, NY 12065
Structural & MEP Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 60-02-01-06-4-016-026
FROSS BOX – SOFTBALL: SBL# 60-02-01-06-7-001-001
FROSS BOX – BASEBALL: SBL# 60-02-01-06-7-001-001

100 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
SECTIONS & DETAILS

Drawing No.
S-301

LEGEND

- XX — EXISTING RTU TO REMAIN
- XX — EXISTING RTU TO BE REMOVED AND REPLACED WITH NEW
- XX — EXISTING RTU TO BE REMOVED AND REPLACED WITH NEW AS PER ALTERNATE NO. 101.
- EXISTING THROUGH WALL LOUVER
- EXISTING THROUGH WALL SCUPPER
- EXISTING PIPE PENETRATION
- EXISTING ROOF DRAIN
- EXISTING VENTILATOR OR MECHANICAL PENETRATION
- EQ — EXISTING EQUIPMENT PAD
- EXISTING ROOF HATCH
- EXISTING LADDER
- EXISTING MECHANICAL EQUIPMENT
- EXISTING ROOF VENT
- EXISTING FRESH AIR INTAKE
- AREA OF EXISTING WET INSULATION
- EXISTING CHIMNEY
- NEW PROTECTION RAILING
- SOLAR PANEL

GENERAL NOTES

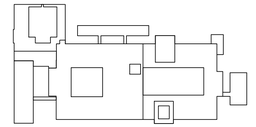
1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING SITE AND FACILITIES FOR INSTALLATION OF NEW UNITS. CONTRACTOR WILL BE RESPONSIBLE FOR SITE RESTORATION AND FOR ANY DAMAGE TO EXISTING FACILITIES OR EQUIPMENT.

DEMO AND REPAIR NOTES

A1 REMOVE AND REPLACE EXISTING ROOF TOP UNIT(RTU) WITH NEW. PROVIDE AN ADAPTER ROOF CURB FOR UNIT, INCLUDE PIPE CHASE CURB AND PIPE CABINET, SEE SCHEDULE OF RTU'S ON M-103. INCLUDE ALL ROOFING EXTENSIONS, FLASHING AND ELECTRICAL WORK REQUIRED.

A2 REMOVE AND REPLACE EXISTING RTU WITH NEW. INCLUDE AS AN ADD ALTERNATE NO.1. PROVIDE AN ADAPTER ROOF CURB FOR UNIT, INCLUDE PIPE CHASE CURB AND PIPE CABINET. SEE SCHEDULE OF RTU ON M-103. INCLUDE ALL ROOFING EXTENSIONS, FLASHING, AND ELECTRICAL WORK REQUIRED.

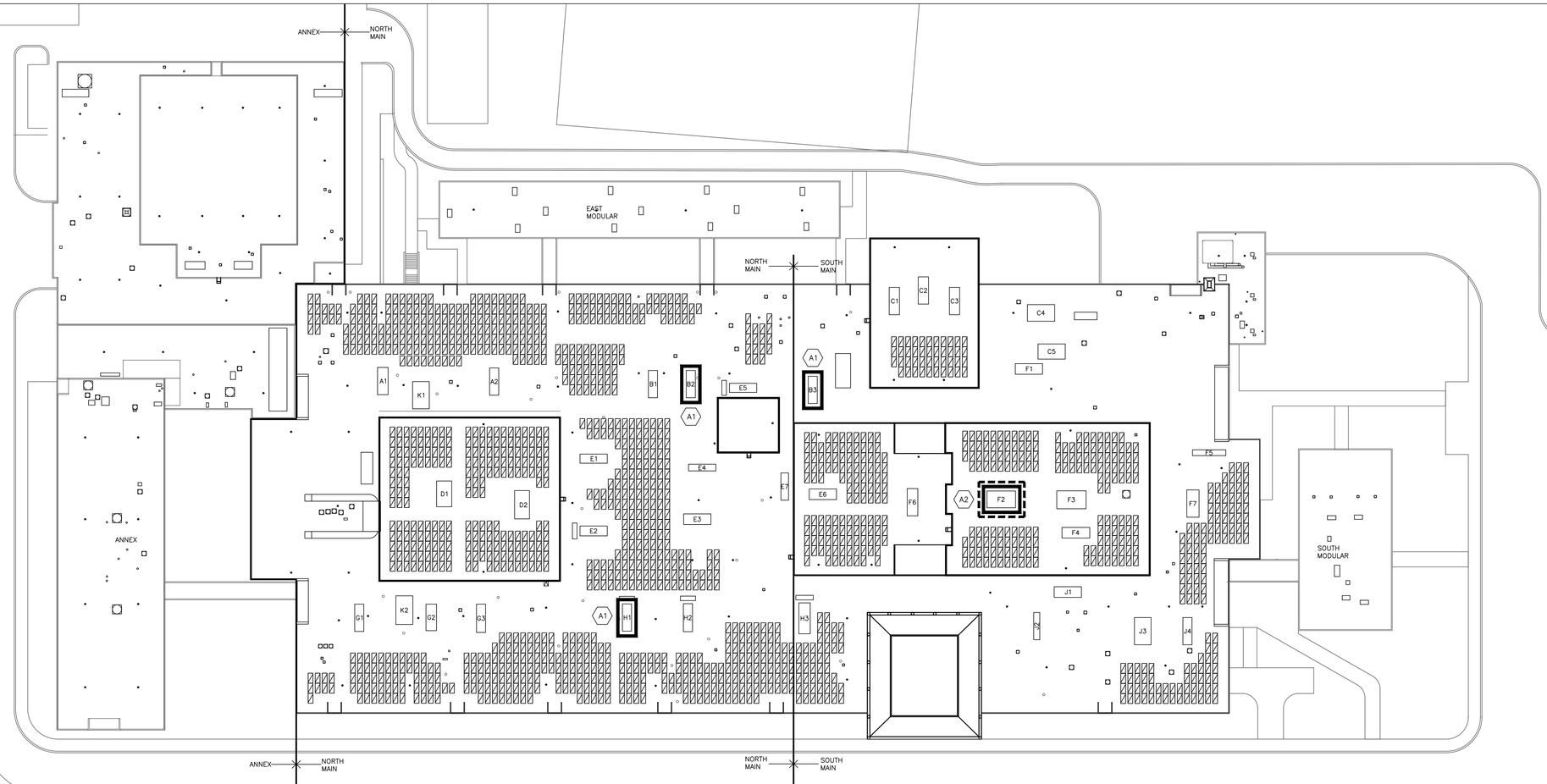
KEY PLAN



PLAN NORTH

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE



1 NORTH ROCKLAND HIGH SCHOOL ROOF PLAN

SCALE: 1"=40'-0"

PLAN NORTH

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Landscape Architect & Civil Engineer: THE LA GROUP, LANDSCAPE ARCHITECTURE & PLANNING, P.C., 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC, 2 EXECUTIVE BOULEVARD, SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-000
PRESS BOX - SOFTBALL: SBL# 50-02-01-05-7-000-001
PRESS BOX - BASEBALL: SBL# 50-02-01-05-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

106 Hammond Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, LLP.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title: ROOF PLAN

Drawing No. A-100

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

NET VIP SEATING:	15
NET SEATING:	155
COMPANION SEATS:	5
WHEEL CHAIR SEATS:	5
TOTAL SEATING:	180

SOFTBALL BLEACHER SEATING CAPACITY CHART

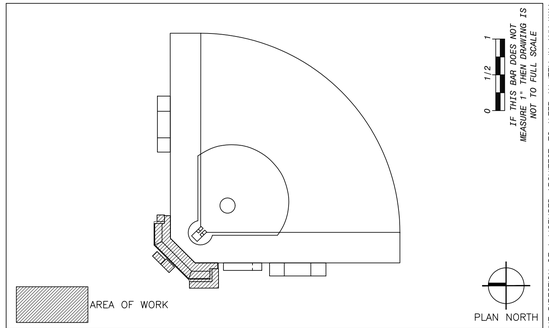
1. BASIS OF DESIGN FOR NEW GALVANIZED GRANDSTAND BY GT GRANDSTANDS SHALL INCLUDE:
   - 5 ROW, 30" MITERED, ELEVATED WITH 5' FRONT WALKWAY
   - 1'-0" RISE x 2'-6" TREAD INTERLOCKING DECKING SYSTEM
   - 1/2" / 1'-0" SLOPED ROOF WITH 26 GA PURLIN BEARING METAL PANELS.

   SEE A-111 FOR BLEACHER CANOPY ROOF PLAN
   - 5'-0" CLEAR STAIR TO GRADE
   - 5'-0" CLEAR RAMP TO GRADE
   - 8'-0" x 12'-0" PRESS BOX. SEE A-130 FOR PRESS BOX PLAN
   - FRONT OF STAND PURLIN BEARING R (PBR) PANEL SKIRTING
2. SEE STRUCTURAL DRAWINGS FOR MEMBER SIZING

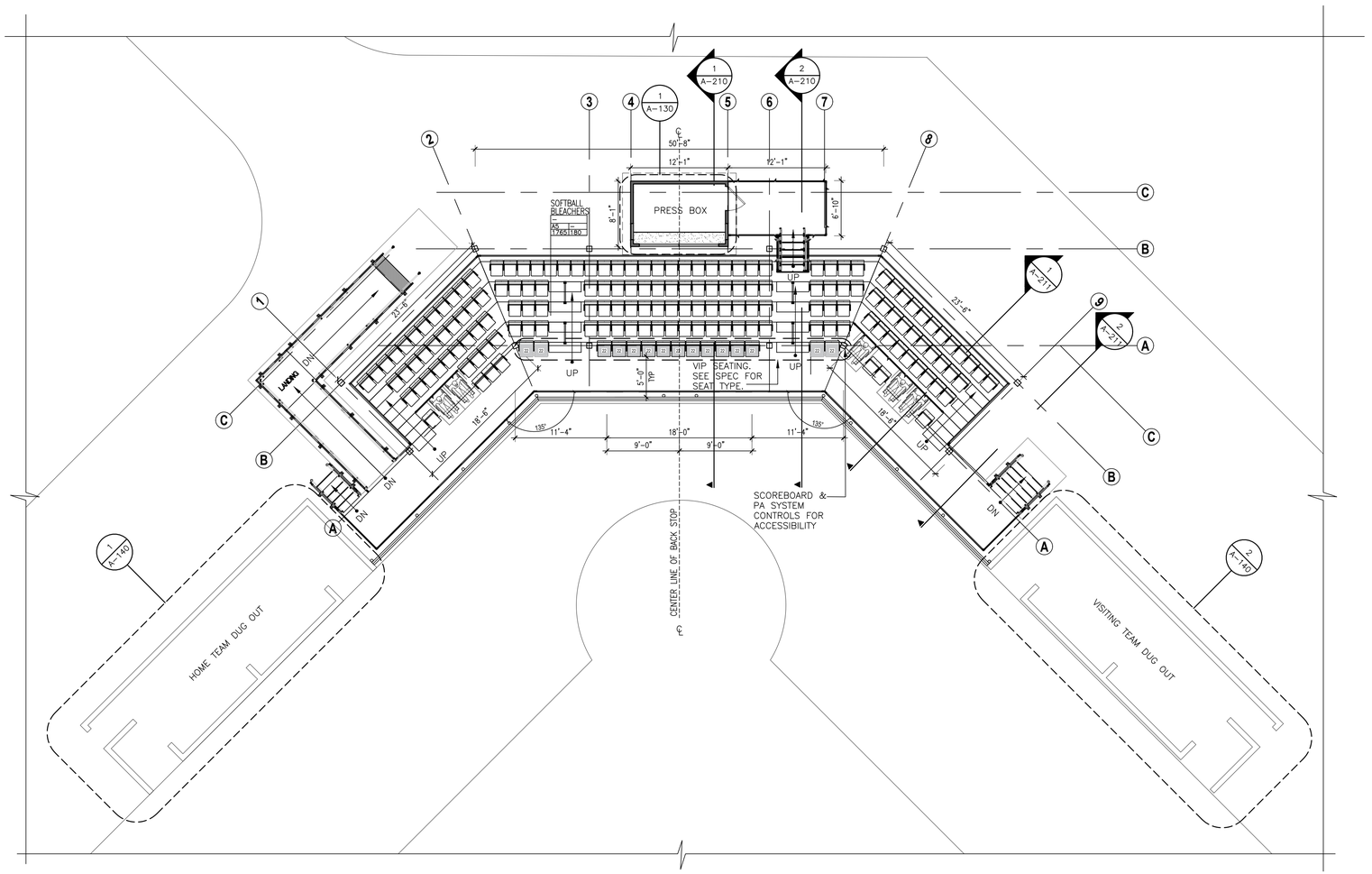
GENERAL NOTES

1.	FOOTBOARDS:	MILL FINISH (ABRADED AND ANODIZED)
2.	SEATS:	INTERKAL CHAIRS
3.	RISERS:	ANODIZED FINISH
4.	GUARDRAIL:	BLACK CHAINLINK
5.	STRUCTURE:	GALVANIZED
6.	CHAIRS:	HUSSEY VIP CHAIRS – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
7.	FRONT SKIRTING:	PBR PANEL – COLOR: MBCI MEDIUM BRONZE 437R454
8.	ROOF:	ASH GREY METAL PANELS
9.	STUCCO:	FRONT OF STAND, SIDE OF STAND, BACK OF STAND & ROOF GABLES – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
10.	PRESSBOX:	SEE A-130

MATERIAL FINISHES



KEY PLAN



1 SOFTBALL BLEACHER LAYOUT PLAN

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

PLAN NORTH

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL
FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-030-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-031-001

106 Hammond Rd.
Pearl River, NY 10965

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
SOFTBALL BLEACHER LAYOUT PLAN

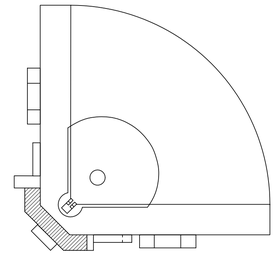
Drawing No.
A-110

1. BASIS OF DESIGN FOR NEW GALVANIZED GRANDSTAND BY GT GRANDSTANDS SHALL INCLUDE:
   - 5 ROW MITERED, 30" ELEVATED WITH 5'-2" FRONT WALKWAY
   - 1'-0" RISE x 2'-6" TREAD INTERLOCKING DECKING SYSTEM
   - 1/2" / 1'-0" SLOPED ROOF WITH 26 GA PURLIN BEARING METAL PANELS.
   - 5'-0" CLEAR STAIR TO GRADE
   - 5'-0" CLEAR RAMP TO GRADE
   - 12'-0" x 8'-0" PRESS BOX. SEE A-130 FOR PRESS BOX PLAN
   - FRONT OF STAND PURLIN BEARING R (PBR) PANEL SKIRTING
2. SEE STRUCTURAL DRAWINGS FOR MEMBER SIZING

GENERAL NOTES

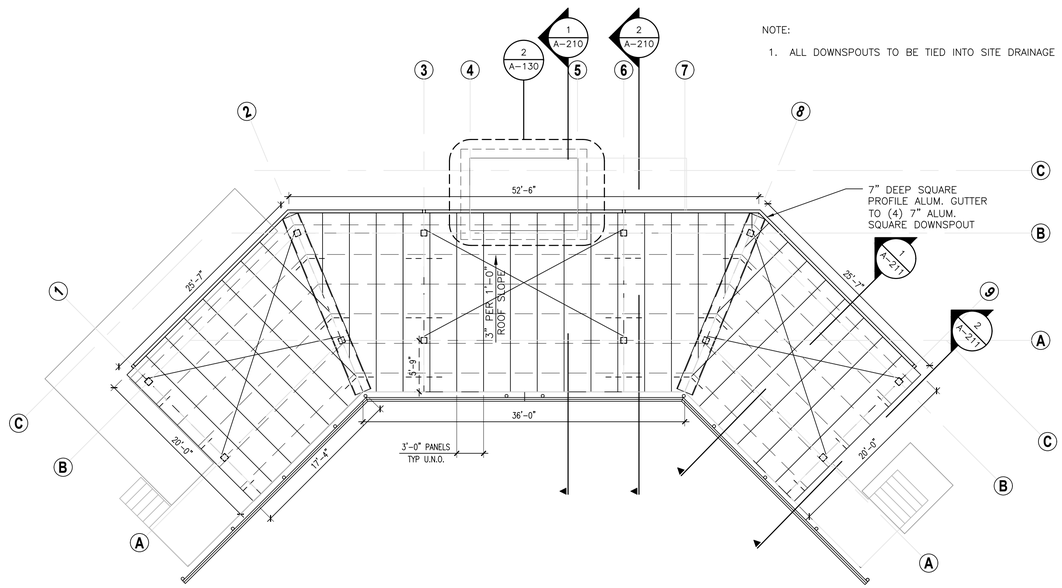
1.	FOOTBOARDS:	MILL FINISH (ABRADED AND ANODIZED)
2.	SEATS:	INTERKAL CHAIRS
3.	RISERS:	ANODIZED FINISH
4.	GUARDRAIL:	BLACK CHAINLINK
5.	STRUCTURE:	GALVANIZED
6.	CHAIRS:	HUSSEY VIP CHAIRS – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
7.	FRONT SKIRTING:	PBR PANEL – COLOR: MBCI MEDIUM BRONZE 437R454
8.	ROOF:	ASH GREY METAL PANELS
9.	STUCCO:	FRONT OF STAND, SIDE OF STAND, BACK OF STAND & ROOF GABLES – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
10.	PRESSBOX:	SEE A-130

MATERIAL FINISHES



KEY PLAN

NOTE:
1. ALL DOWNSPOUTS TO BE TIED INTO SITE DRAINAGE



1 SOFTBALL BLEACHER CANOPY PLAN

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

PLAN NORTH

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-010-000
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-090-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-091-001

156 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
SOFTBALL BLEACHER CANOPY PLAN

Drawing No.
A-111

NET VIP SEATING (1 ROW OF 13 SEATS):	19
NET SEATING:	246
COMPANION SEATS:	5
WHEEL CHAIR SEATS:	5
TOTAL SEATING:	275

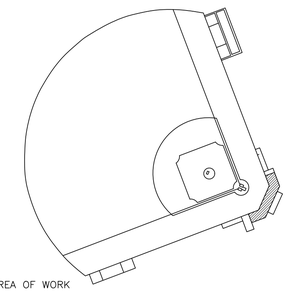
SOFTBALL BLEACHER SEATING CAPACITY CHART

1. BASIS OF DESIGN FOR NEW GALVANIZED GRANDSTAND BY GT GRANDSTANDS SHALL INCLUDE:
   - 5 ROW, 30" MITERED, ELEVATED WITH 5"" FRONT WALKWAY
   - 1'-0" RISE x 2'-6" TREAD INTERLOCKING DECKING SYSTEM
   - 1/2" / 1'-0" SLOPED ROOF WITH 26 GA PURLIN BEARING METAL PANELS. SEE A-121 FOR BLEACHER CANOPY ROOF PLAN
   - 5'-0" CLEAR STAIR TO GRADE
   - 5'-0" CLEAR RAMP TO GRADE
   - 12'-0" x 8'-0" PRESS BOX. SEE A-130 FOR PRESS BOX PLAN
   - FRONT OF STAND PURLIN BEARING R (PBR) PANEL SKIRTING
2. SEE STRUCTURAL DRAWINGS FOR MEMBER SIZING

GENERAL NOTES

1.	FOOTBOARDS:	MILL FINISH (ABRADED AND ANODIZED)
2.	SEATS:	INTERKAL CHAIRS
3.	RISERS:	ANODIZED FINISH
4.	GUARDRAIL:	BLACK CHAINLINK
5.	STRUCTURE:	GALVANIZED
6.	CHAIRS:	HUSSEY VIP CHAIRS – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
7.	FRONT SKIRTING:	PBR PANEL – COLOR: MBCI MEDIUM BRONZE 437R454
8.	ROOF:	ASH GREY METAL PANELS
9.	STUCCO:	FRONT OF STAND, SIDE OF STAND, BACK OF STAND & ROOF GABLES – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
10.	PRESSBOX:	SEE A-130

MATERIAL FINISHES



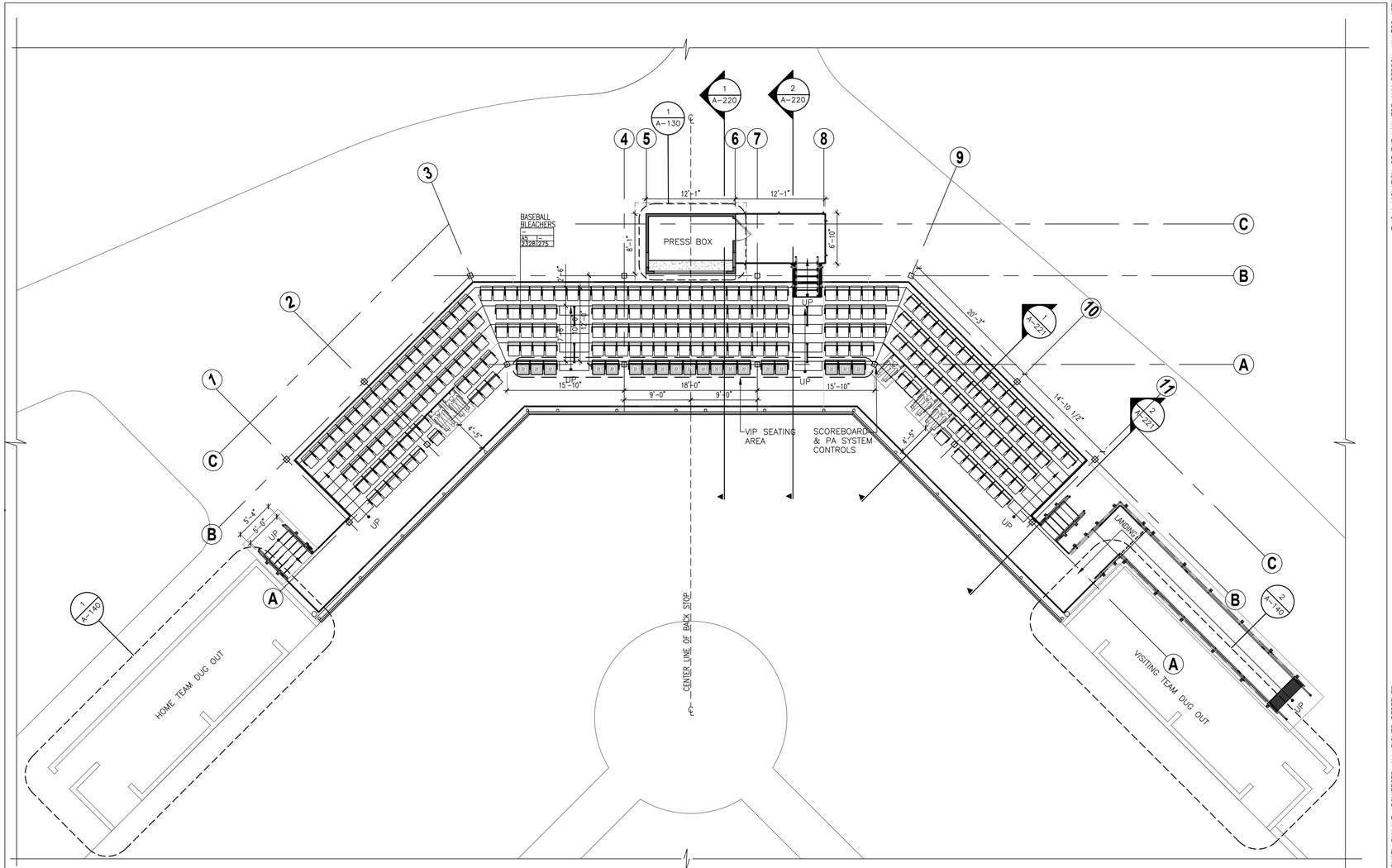
AREA OF WORK

PLAN NORTH

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE

KEY PLAN



1 BASEBALL BLEACHER LAYOUT PLAN

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

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	09-28-23

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-06-0-016-000
PRESS BOX – SOFTBALL SBL#: 50-02-01-06-7-090-001
PRESS BOX – BASEBALL SBL#: 50-02-01-06-7-091-001

150 Haverstraw Rd.
Suffern, NY 10901

TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: BASEBALL BLEACHER LAYOUT PLAN

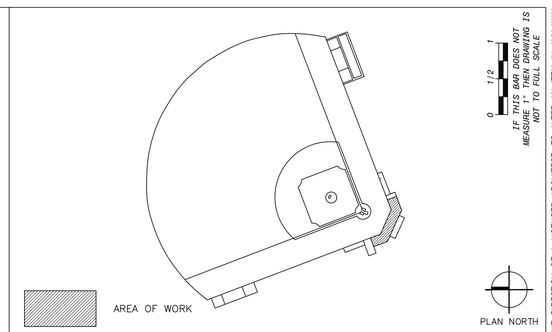
Drawing No.: A-120

1. BASIS OF DESIGN FOR NEW GALVANIZED GRANDSTAND BY GT GRANDSTANDS SHALL INCLUDE:
   - 5 ROW MITERED, 30" ELEVATED WITH 5'-2" FRONT WALKWAY
   - 1'-0" RISE x 2'-6" TREAD INTERLOCKING DECKING SYSTEM
   - 1/2" / 1'-0" SLOPED ROOF WITH 26 GA PURLIN BEARING R (PBR) PANELS.
   - 5'-0" CLEAR STAIR TO GRADE
   - 5'-0" CLEAR RAMP TO GRADE
   - 12'-0" x 8'-0" PRESS BOX. SEE A-130 FOR PRESS BOX PLAN
   - FRONT OF STAND PURLIN BEARING R (PBR) PANEL SKIRTING
2. SEE STRUCTURAL DRAWINGS FOR MEMBER SIZING

GENERAL NOTES

1.	FOOTBOARDS:	MILL FINISH (ABRADED AND ANODIZED)
2.	SEATS:	INTERKAL CHAIRS
3.	RISERS:	ANODIZED FINISH
4.	GUARDRAIL:	BLACK CHAINLINK
5.	STRUCTURE:	GALVANIZED
6.	CHAIRS:	HUSSEY VIP CHAIRS – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
7.	FRONT SKIRTING:	PBR PANEL – COLOR: MBCI MEDIUM BRONZE 437R454
8.	ROOF:	ASH GREY METAL PANELS
9.	STUCCO:	FRONT OF STAND, SIDE OF STAND, BACK OF STAND & ROOF GABLES – COLOR: TO BE SELECTED BY OWNER/ARCHITECT
10.	PRESSBOX:	SEE A-130

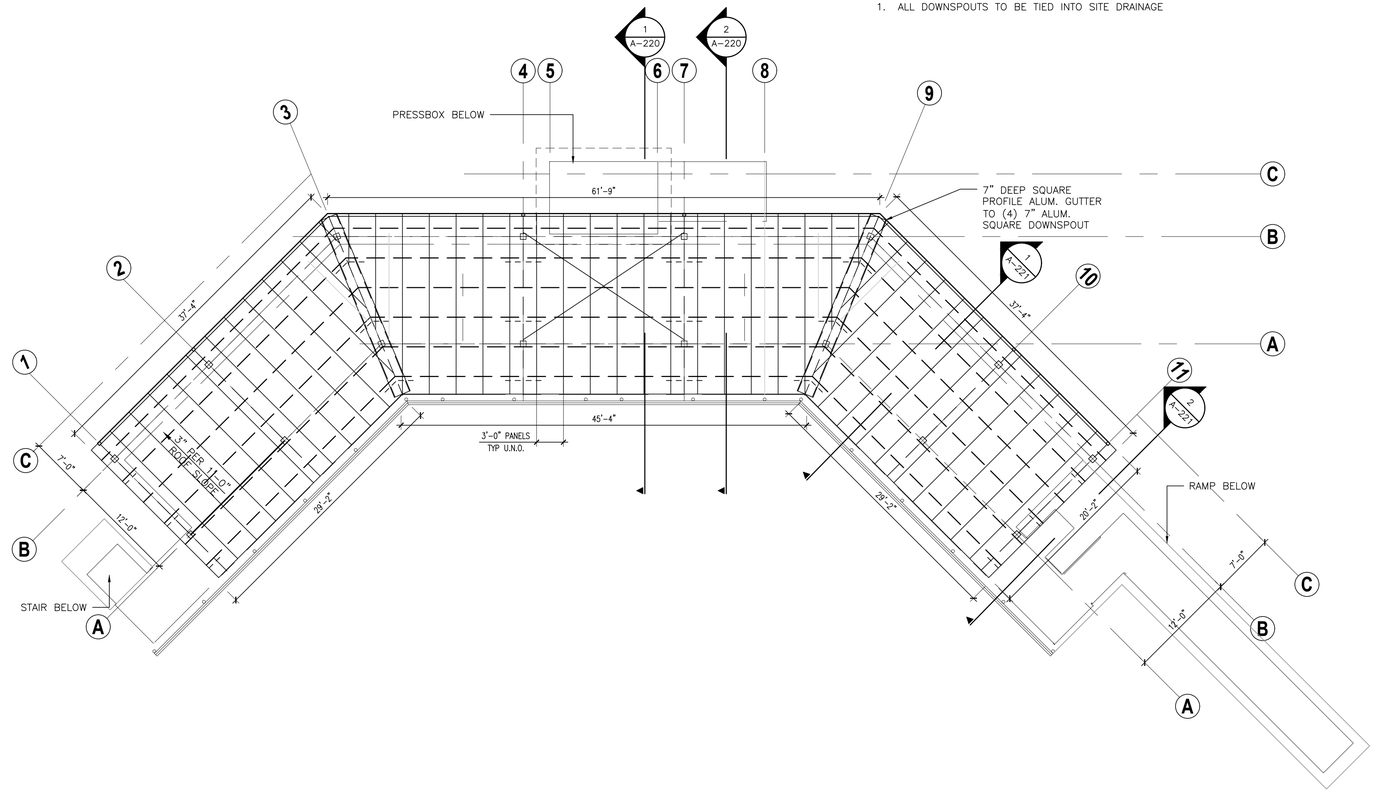
MATERIAL FINISHES



IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE

KEY PLAN

NOTE:
1. ALL DOWNSPOUTS TO BE TIED INTO SITE DRAINAGE



1 BASEBALL BLEACHER CANOPY PLAN

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

PLAN NORTH

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by MAL/JR
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-000
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001

156 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
BASEBALL BLEACHER CANOPY PLAN

Drawing No.
A-121

5/8" GYPSUM CEILING BOARD FINISH

EXIT SIGN/EMERGENCY LIGHT WITH SELF-CONTAINED BATTERY BACKUP.

A — 1' x 4' SURFACE MOUNT LIGHT FIXTURE

LEGEND

(1) NEW DOOR: 3'-0"W X 6'-8"H INSULATED FRP DOOR WITH ALUMINUM EXTRUSION WRAP AROUND FRAMES, HYDRAULIC CLOSER, 10"X10" INSULATED WINDOW WITH ARGON FILL, VINYL WEATHER-STRIPPING, ALUMINUM THRESHOLD AND KEYED LEVER HANDLED LOCKSETS. U-VALUE=0.29. INCLUDE EMERGENCY PANIC HARDWARE DEVICE SEE SPECIFICATIONS 131210 - PRE-ENGINEERED STRUCTURES

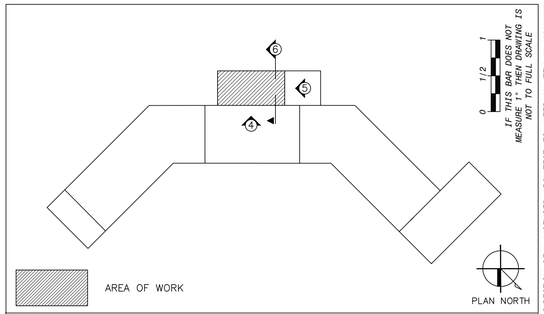
[A] NEW WINDOW: 4'-11"W X 4'-0"H WOJAN "M85 SERIES" ALUMINUM FRAMED HORIZONTAL SLIDING WINDOWS WITH EXTRUDED ALUMINUM FRAMES WITH THERMAL BREAK EXTRUSIONS AND 3/4" INSULATED TEMPERED SAFETY GLASS ARGON FILLED AND WITH LOW E. AAMA C-35 RATING. MUST BE ETCHED ON EACH PANEL OF WINDOWS. U-VALUE=0.24 SEE SPECIFICATIONS 131210 - PRE-ENGINEERED STRUCTURES

[B] NEW WINDOW: 2'-0"W X 4'-0"H WOJAN "M85 SERIES" ALUMINUM FRAMED HORIZONTAL FIXED WINDOWS WITH EXTRUDED ALUMINUM FRAMES WITH THERMAL BREAK EXTRUSIONS AND 3/4" INSULATED TEMPERED SAFETY GLASS WITH LOW E. AAMA C-35 RATING. MUST BE ETCHED ON EACH PANEL OF WINDOWS. U-VALUE=0.24. SEE SPECIFICATIONS 131210 - PRE-ENGINEERED STRUCTURES

CONSTRUCTION LEGEND

1. BASIS OF DESIGN FOR PRESS BOX BY GT GRANDSTANDS. SEE SPECIFICATION SECTION 131210: "PRE-ENGINEERED STRUCTURES"
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY NYS PROFESSIONAL ENGINEER FOR OWNER/ARCHITECT REVIEW.
3. PRESS BOX TO COMPLY WITH THE 2020 BUILDING CODE OF NEW YORK STATE AND THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE. SEE DRAWING B-100 FOR REQUIREMENTS.
4. PRESS BOX TO COMPLY TYPE IIB CONSTRUCTION REQUIREMENTS SET IN THE 2020 BUILDING CODE OF NEW YORK STATE
5. PROVIDE WINDOW SHADES AT ALL B WINDOWS.

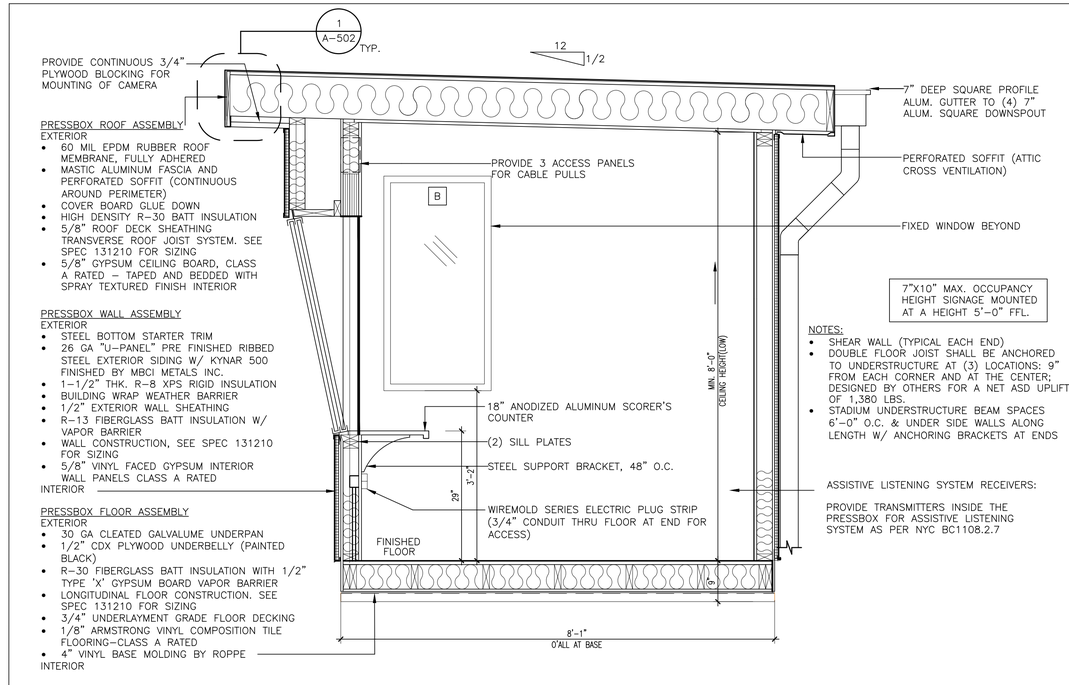
GENERAL NOTES



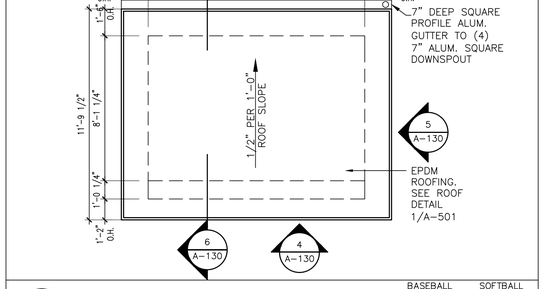
KEY PLAN

MODEL#	ITEM	MODEL#	ITEM
R.35-3896	Loudspeaker	ULXD2/SM58-H50	Handheld Mic
	Loudspeaker	SM58S	Handheld Mic
R.5-66MAX	Loudspeaker	ULXD1-H50	Belt Pack Transmitter
R.5-V2200	Horn	SBC-200-US	Charging Dock W/ Power Supply
ALC-1604D	Amplifiers	SBC-200	Charging Dock
DN312X	Mixer	SB900B	Battery Pack
NE24.24M 4x4	Processor	SM31FH-TQG	Head Set Mic
LT-800-216-01-D	Assistive Listening Transmitter	WA360	Belt Pack Toggle
LA-122	Integral Remote Antenna Kit	GFW-MIC-0601	Desktop Mic Stand
LA-430	Induction Neck Loop	GFW-MIC-2020	Boom Mic Stand
LA-304	Signage	MIP3S	Audio Plate
LA-380-01	Charging Case	MKQ15	Mic Cable
LA-326	Rack Kit	MKQ50NP-ORANGE	Mic Cable
LA-405	Earphones	MST2R10	Audio Cable STMINI to Dual RCA
LR-4200-216	Receiver	MST10	Audio Cable STMINI
SC-188-30-SS	Safety Cable	SPLIT6	Line Level Splitter
PM-DA-48-G	Dual Loudspeaker Cross Bar	TX70A	Transformer
PM-MOUNT-6UP-G	Loudspeaker Pole Mounting Pate		
PM-BAND-90	Pole Mounting Bands 30"		
PM-SAFETY-6D	Safety Cable Pole Mounting Plate		
PM-24-6DOWN-G	Pole Mount Kit(Press Box Speakers)		
51612015	3/8"-16 x 11/16" Stainless Eye Bolt		
ULXD4Q-H50	Wireless Receivers		
UA825	Remote Antenna Cable - 25'		
UA874US	Active Directional Remote Antenna		

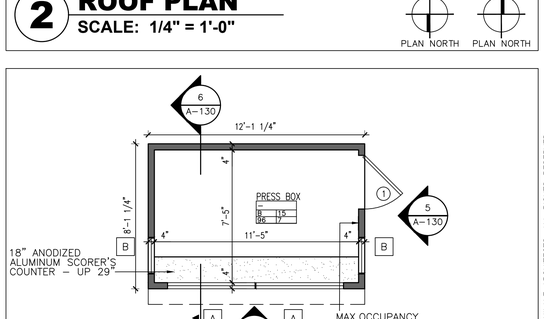
SCHEDULE OF EQUIPMENTS



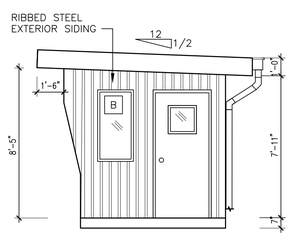
6 CROSS SECTION
SCALE: 3/4" = 1'-0"



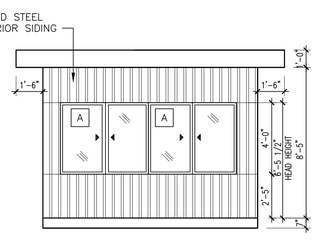
3 REFLECTED CLG PLAN
SCALE: 1/4" = 1'-0"



2 ROOF PLAN
SCALE: 1/4" = 1'-0"



5 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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

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

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
49 LAKE AVENUE
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD
SUITE 502, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-001-001
100 Hamptonburgh Rd.
Haverstraw, NY 10927
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: PRESS BOX PLANS & ELEVATIONS

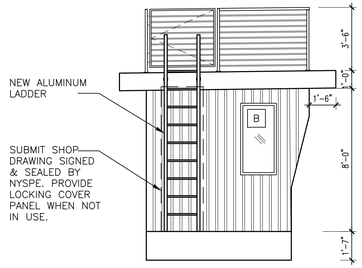
Drawing No. A-130

5/8" GYPSUM CEILING BOARD FINISH

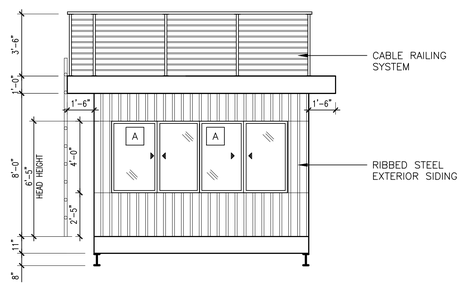
EXIT SIGN/EMERGENCY LIGHT WITH SELF-CONTAINED BATTERY BACKUP.

A — 1' x 4' SURFACE MOUNT LIGHT FIXTURE

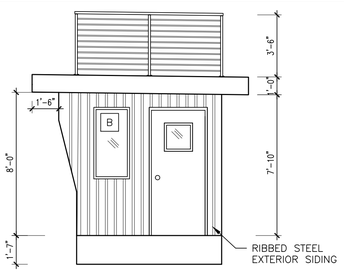
LEGEND



7 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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



5 SIDE ELEVATION
SCALE: 1/4" = 1'-0"

① NEW DOOR: 3'-0"W X 6'-8"H INSULATED FRP DOOR WITH ALUMINUM EXTRUSION WRAP AROUND FRAMES, HYDRAULIC CLOSER, 10"X10" INSULATED WINDOW WITH ARGON FILL, VINYL WEATHER-STRIPPING, ALUMINUM THRESHOLD AND KEYED LEVER HANDLED LOCKSETS. U-VALUE=0.29. INCLUDE EMERGENCY PANIC HARDWARE DEVICE SEE SPECIFICATIONS 131210 – PRE-ENGINEERED STRUCTURES

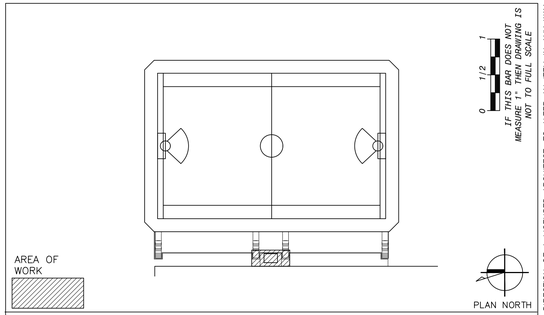
A — NEW WINDOW: 4'-11"W X 4'-0"H WOJAN "M85 SERIES" ALUMINUM FRAMED HORIZONTAL SLIDING WINDOWS WITH EXTRUDED ALUMINUM FRAMES WITH THERMAL BREAK EXTRUSIONS AND 3/4" INSULATED TEMPERED SAFETY GLASS ARGON FILLED AND WITH LOW E. AAMA C-35 RATING. MUST BE ETCHED ON EACH PANEL OF WINDOWS. U-VALUE=0.24 SEE SPECIFICATIONS 131210 – PRE-ENGINEERED STRUCTURES

B — NEW WINDOW: 2'-0"W X 4'-0"H WOJAN "M85 SERIES" ALUMINUM FRAMED HORIZONTAL FIXED WINDOWS WITH EXTRUDED ALUMINUM FRAMES WITH THERMAL BREAK EXTRUSIONS AND 3/4" INSULATED TEMPERED SAFETY GLASS WITH LOW E. AAMA C-35 RATING. MUST BE ETCHED ON EACH PANEL OF WINDOWS. U-VALUE=0.24. SEE SPECIFICATIONS 131210 – PRE-ENGINEERED STRUCTURES

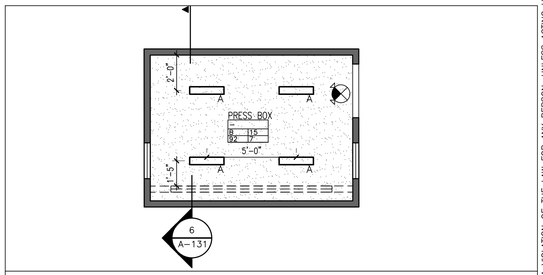
CONSTRUCTION LEGEND

1. BASIS OF DESIGN FOR PRESS BOX BY GT GRANDSTANDS. SEE SPECIFICATION SECTION 131210: "PRE-ENGINEERED STRUCTURES"
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY NYS PROFESSIONAL ENGINEER FOR OWNER/ARCHITECT REVIEW.
3. PRESS BOX TO COMPLY WITH THE 2020 BUILDING CODE OF NEW YORK STATE AND THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE. SEE DRAWING B-100 FOR REQUIREMENTS.
4. PRESS BOX TO COMPLY TYPE IIB CONSTRUCTION REQUIREMENTS SET IN THE 2020 BUILDING CODE OF NEW YORK STATE
5. PROVIDE WINDOW SHADES AT ALL B WINDOWS.

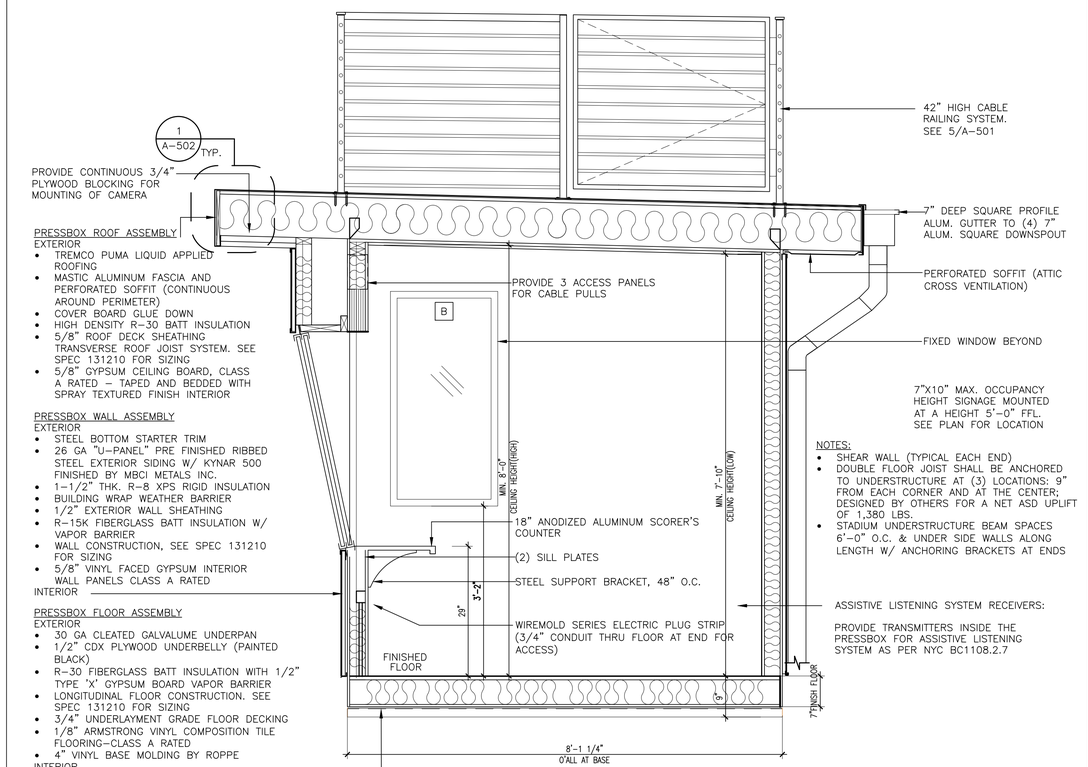
GENERAL NOTES



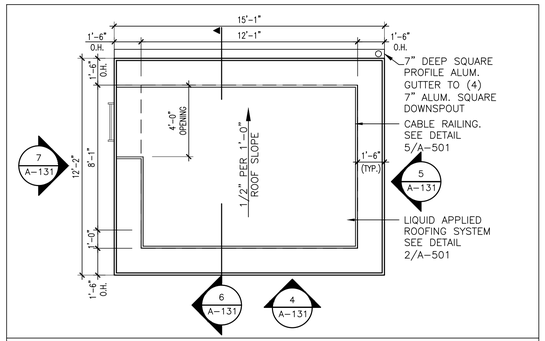
KEY PLAN



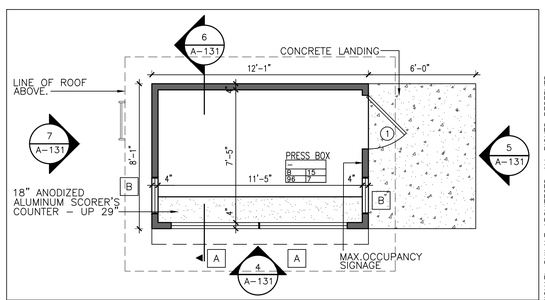
3 REFLECTED CLG PLAN
SCALE: 1/4" = 1'-0"



6 CROSS SECTION
SCALE: 3/4" = 1'-0"



2 ROOF PLAN
SCALE: 1/4" = 1'-0"



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

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10/03/24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	09-28-23

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

Structural & PME Engineer:

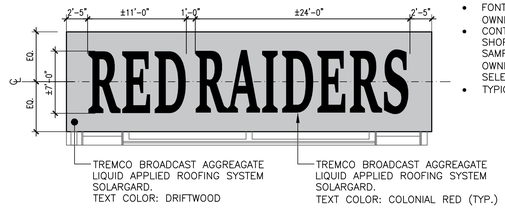
NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES
HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-001-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001
106 Hammond Rd.
Pearl River, NY 10965
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
FIELD HOCKEY PRESS BOX PLANS & ELEVATIONS

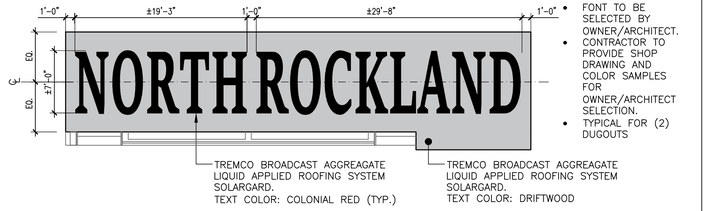
Drawing No.
A-131



NOTES:
- FONT TO BE SELECTED BY OWNER/ARCHITECT.
- CONTRACTOR TO PROVIDE SHOP DRAWING AND COLOR SAMPLES FOR OWNER/ARCHITECT SELECTION.
- TYPICAL FOR (2) DUGOUTS

6 VISITING TEAM DUGOUT ROOF SIGNAGE
SCALE: 1/8" = 1'-0"

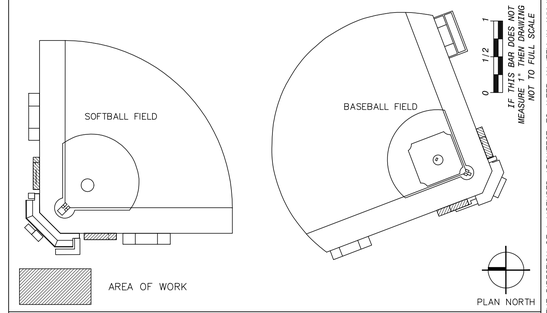
BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH



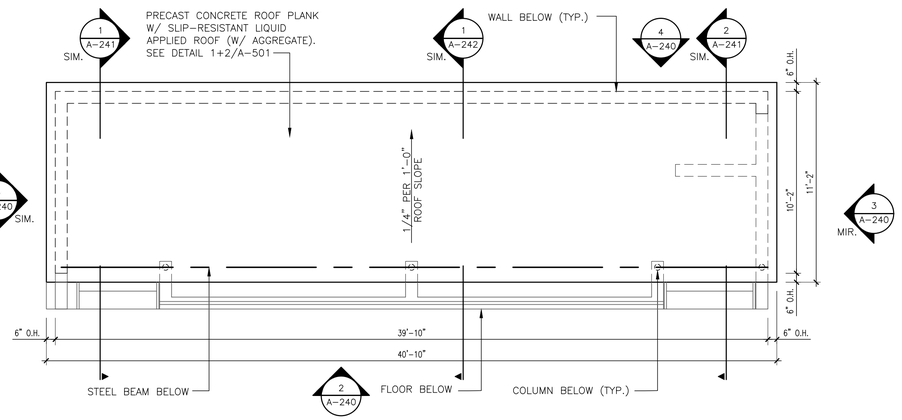
NOTES:
- FONT TO BE SELECTED BY OWNER/ARCHITECT.
- CONTRACTOR TO PROVIDE SHOP DRAWING AND COLOR SAMPLES FOR OWNER/ARCHITECT SELECTION.
- TYPICAL FOR (2) DUGOUTS

5 HOME TEAM DUGOUT ROOF SIGNAGE
SCALE: 1/8" = 1'-0"

BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH

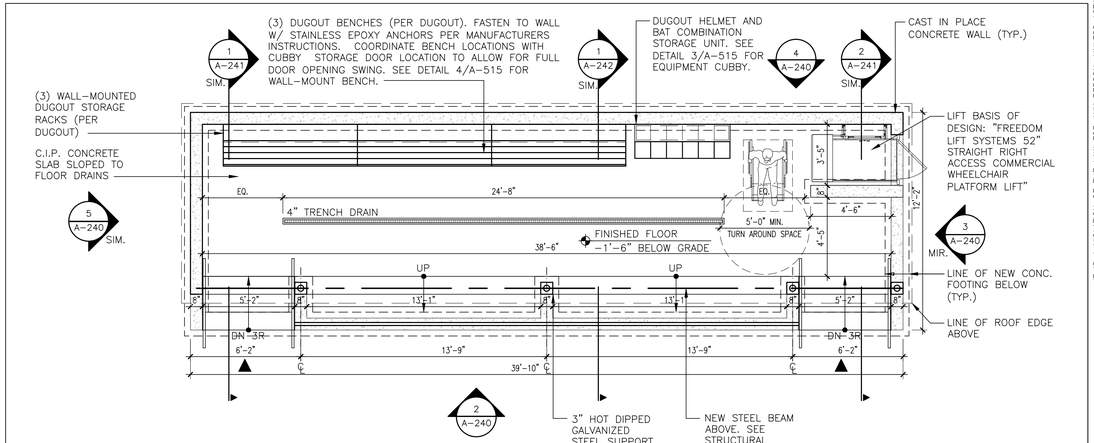


KEY PLAN



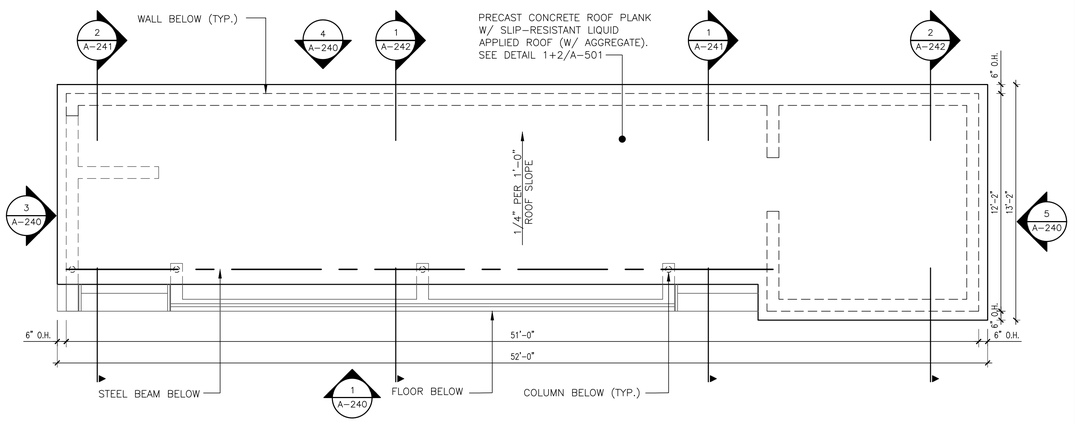
4 VISITING TEAM DUGOUT ROOF PLAN
SCALE: 1/4" = 1'-0"

BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH



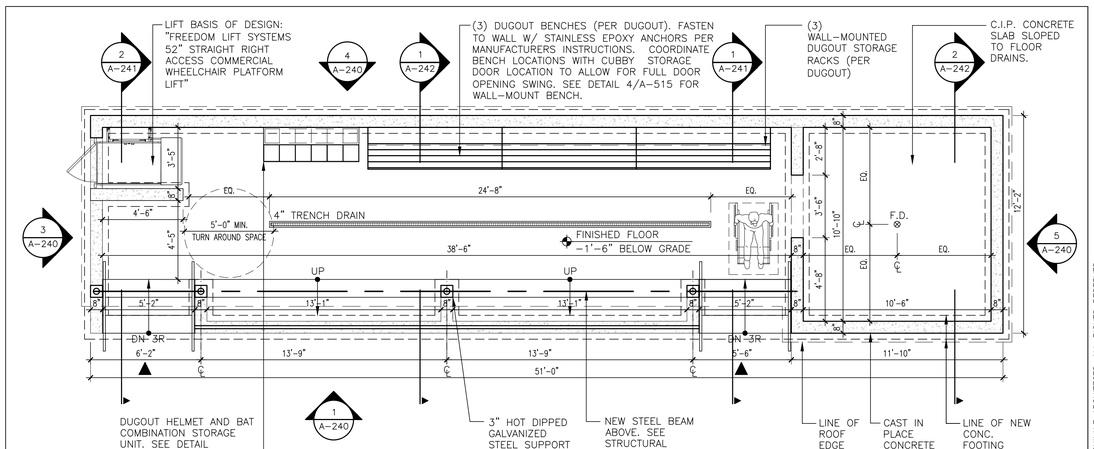
2 VISITING TEAM DUGOUT LAYOUT PLAN
SCALE: 1/4" = 1'-0"

BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH



3 HOME TEAM DUGOUT ROOF PLAN
SCALE: 1/4" = 1'-0"

BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH



1 HOME TEAM DUGOUT LAYOUT PLAN
SCALE: 1/4" = 1'-0"

BASEBALL PLAN NORTH · SOFTBALL PLAN NORTH

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by RH · Checked by MS/JC · Project No. 43045 · Scale AS NOTED · Date 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
45 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 302, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-016-000
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
196 Hammond Rd.
Blauvelt, NY 10913
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

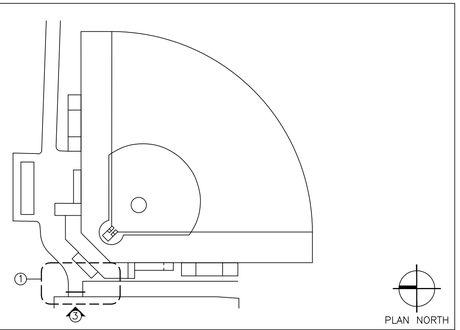
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: DUGOUT PLANS

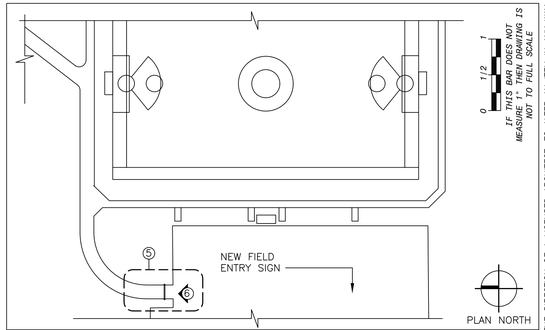
Drawing No. A-140

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY NYS PROFESSIONAL ENGINEER FROM SIGN INSTALLATION COMPANY, AND SAMPLES OF BRICK, SIGNAGE, FENCING, AND GATE FOR ARCHITECT/OWNER REVIEW AND SELECTION.

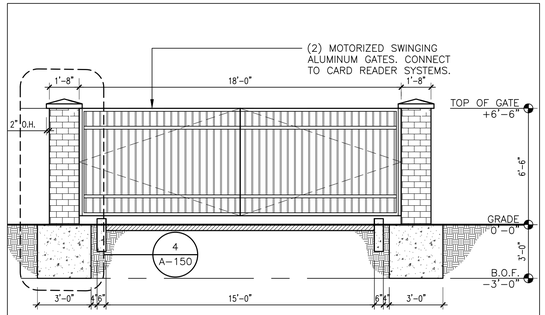
GENERAL NOTES



KEY PLAN - SOFTBALL FIELD

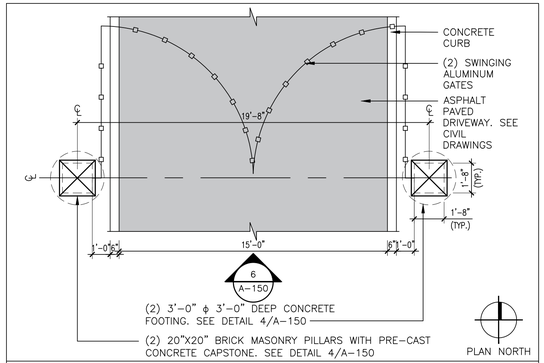


KEY PLAN - FIELD HOCKEY



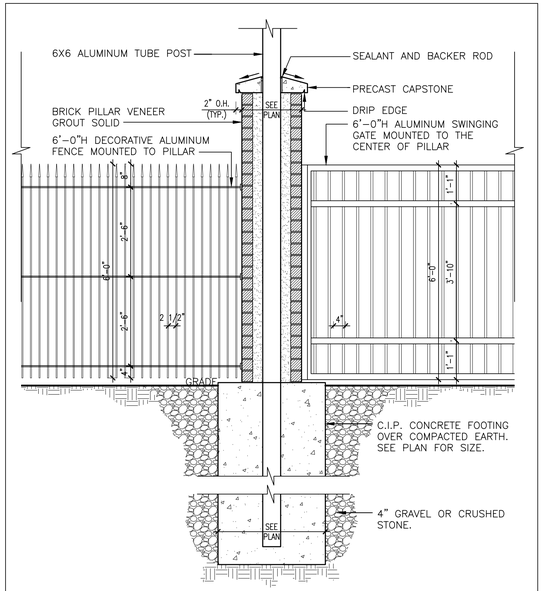
6 FIELD ENTRY ELEVATION AT FIELD HOCKEY ENTRY

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

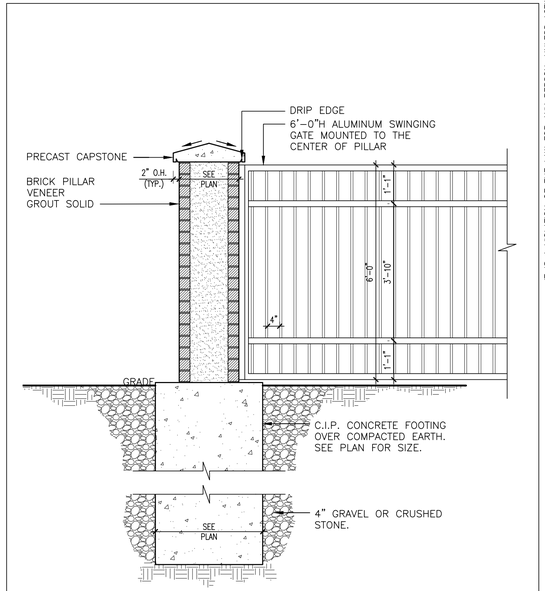


5 FIELD ENTRY PLAN AT FIELD HOCKEY ENTRY

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

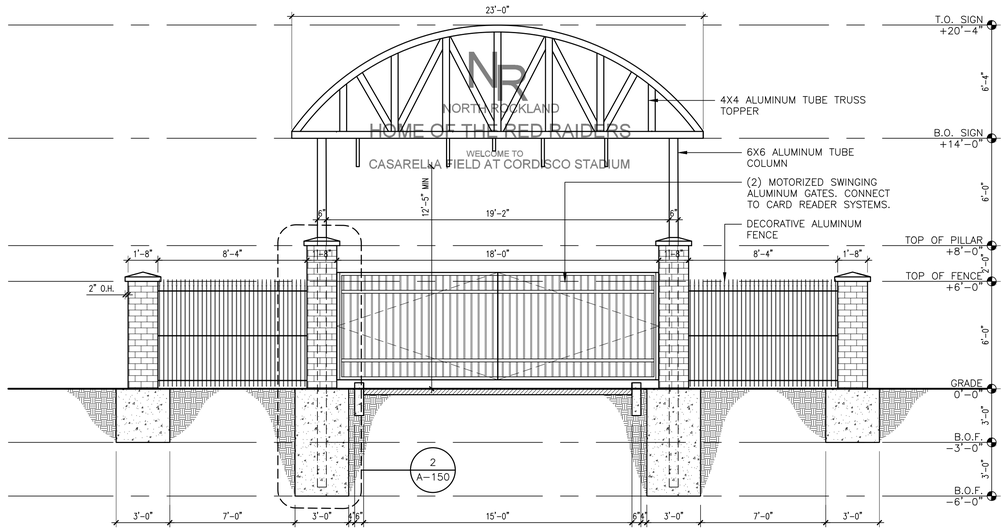


2 FIELD ENTRY PILLAR DETAIL SCALE: 1/2" = 1'-0" AT SOFTBALL ENTRY



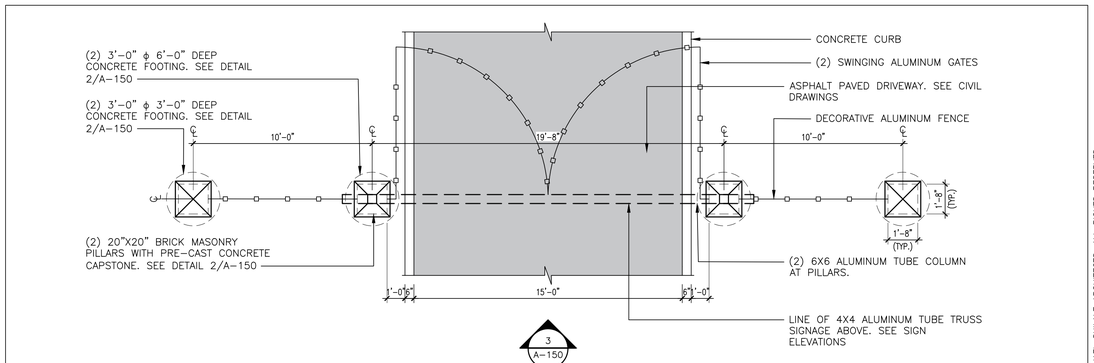
4 FIELD ENTRY PILLAR DETAIL AT FIELD HOCKEY ENTRY

SCALE: 1/2" = 1'-0"



3 FIELD ENTRY SIGNAGE ELEVATION AT SOFTBALL ENTRY

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



1 FIELD ENTRY SIGNAGE PLAN

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

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	RH
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 302, SUFFERN, NY 10901

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-010-000
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

108 Hammond Rd.
Pearl River, NY 10965

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

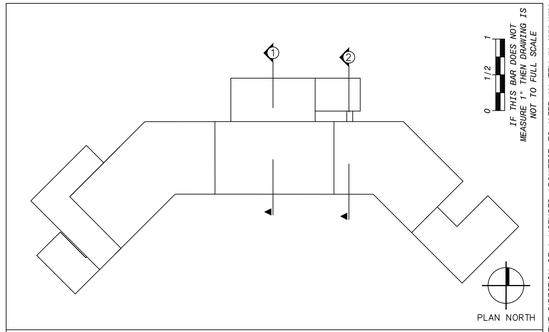
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
FIELD ENTRY SIGNAGE PLANS & ELEVATIONS

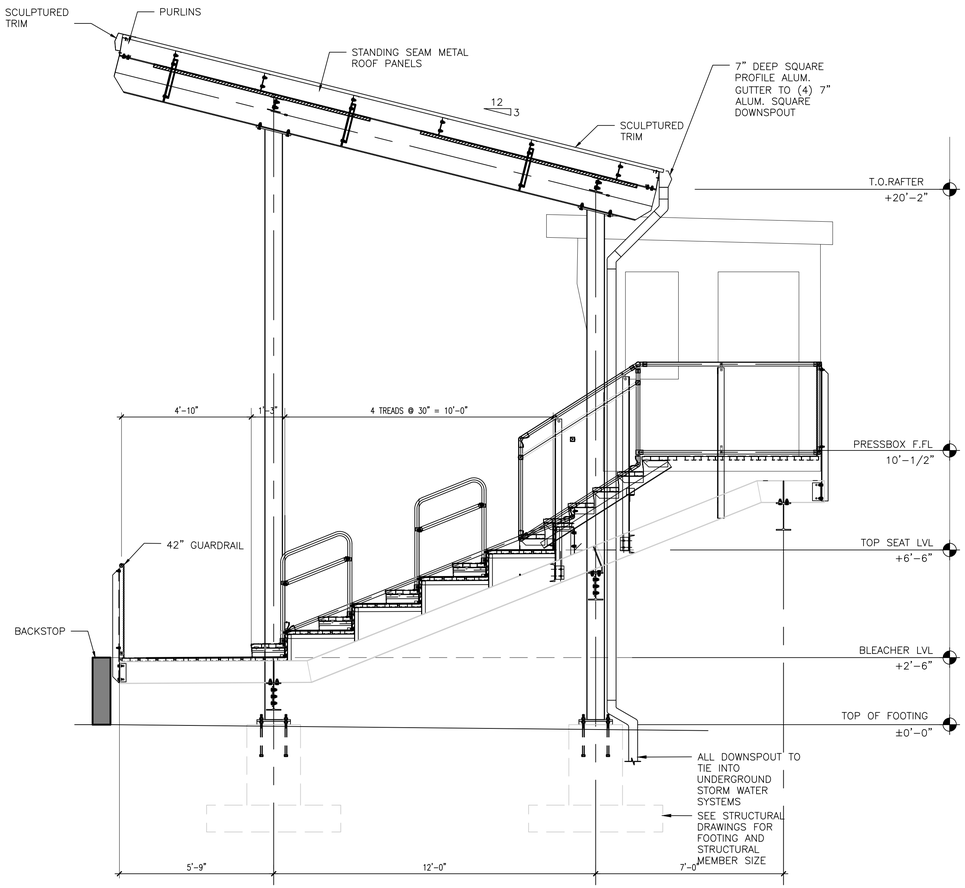
Drawing No.
A-150

GENERAL NOTES

LEGEND

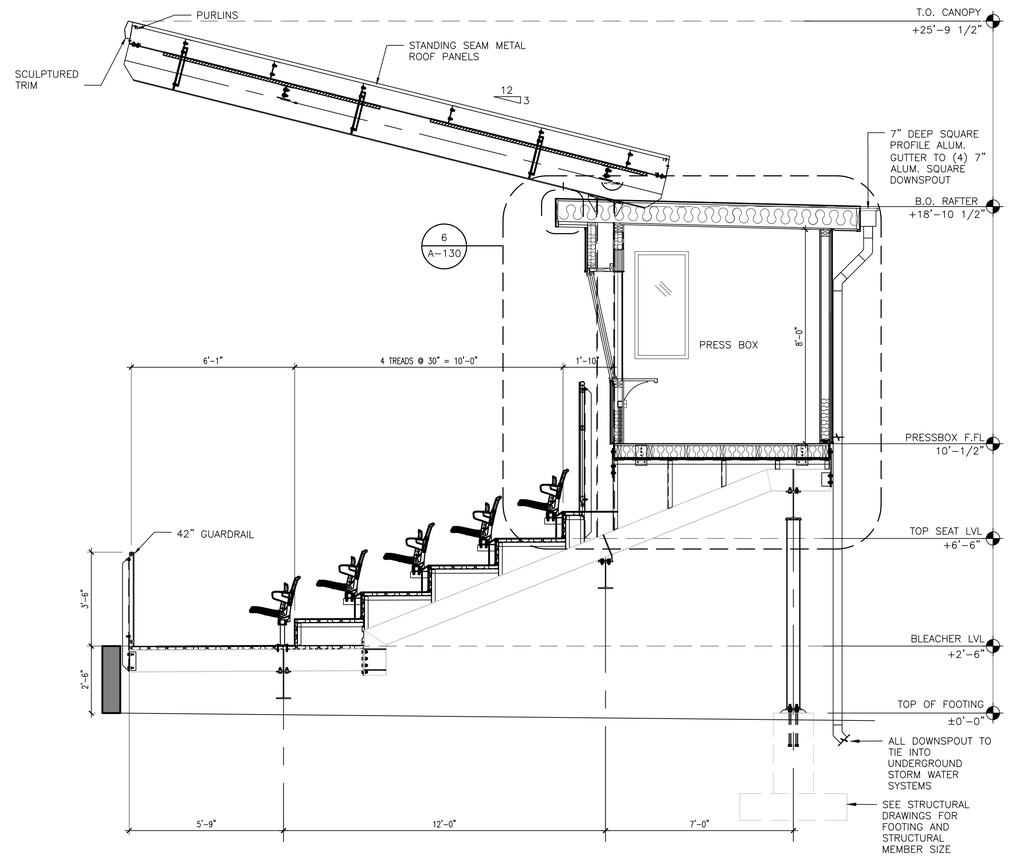


KEY PLAN



2 SOFTBALL BLEACHER SECTION AT AISLE

SCALE: 3/8" = 1'-0"



1 SOFTBALL BLEACHER SECTION AT PRESSBOX

SCALE: 3/8" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer: THE LA GROUP, LANDSCAPE ARCHITECTURE & PLANNING, PLLC, 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC, 2 EXECUTIVE BOULEVARD, SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-000
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-001-001

100 Hammond Rd.
Haverstraw, NY 10927

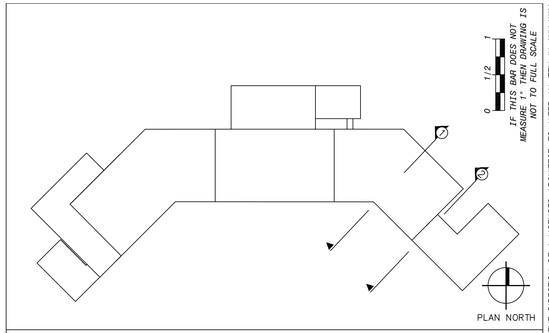
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

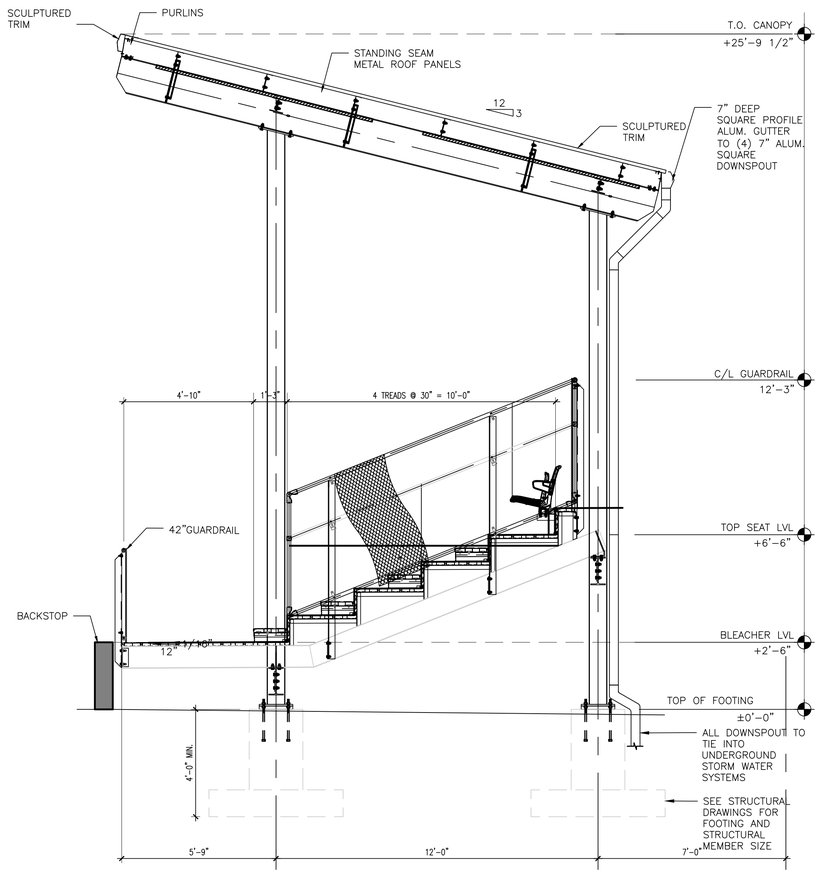
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: SOFTBALL BLEACHER SECTIONS

Drawing No. A-210

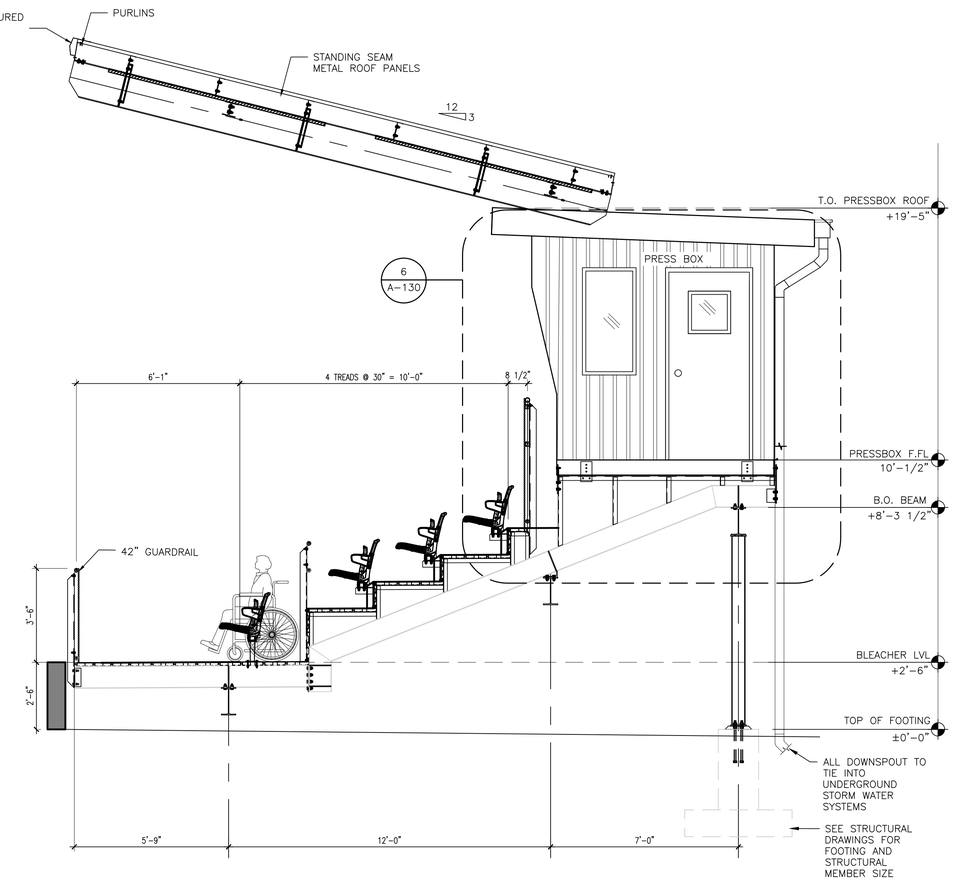


KEY PLAN



2 SOFTBALL BLEACHER SECTION AT END OF STAND

SCALE: 3/8" = 1'-0"



1 SOFTBALL BLEACHER SECTION AT HANDICAP SPACE

SCALE: 3/8" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
45 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-06-0-016-000
PRESS BOX - SOFTBALL SBL#: 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL#: 50-02-01-06-7-001-001

190 Haverstraw Rd.
Suffern, NY 10901

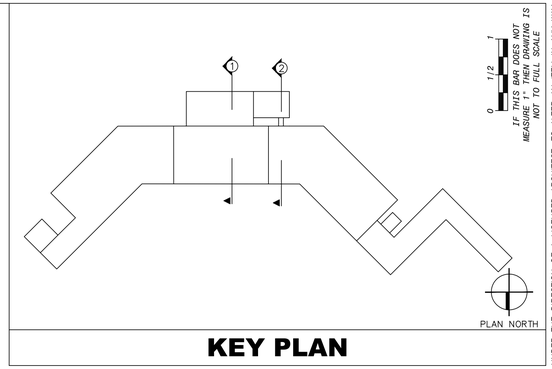
TOWN OF RAMAPO
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

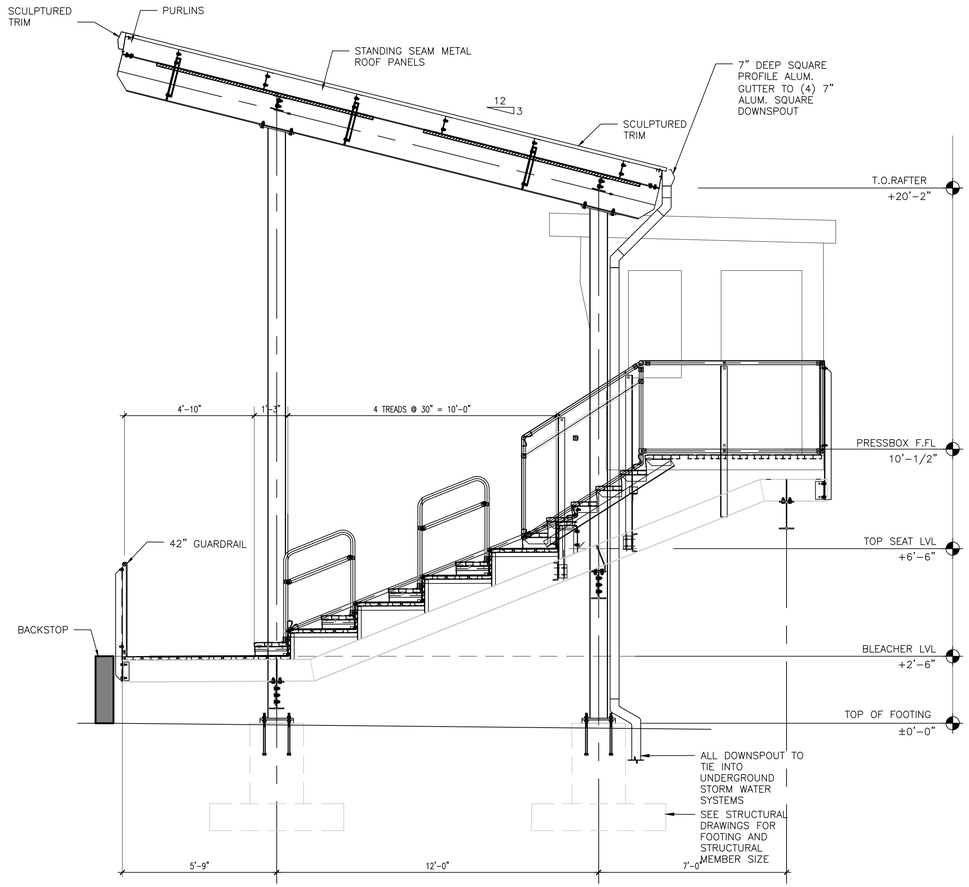
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
SOFTBALL BLEACHER SECTIONS

Drawing No.
A-211

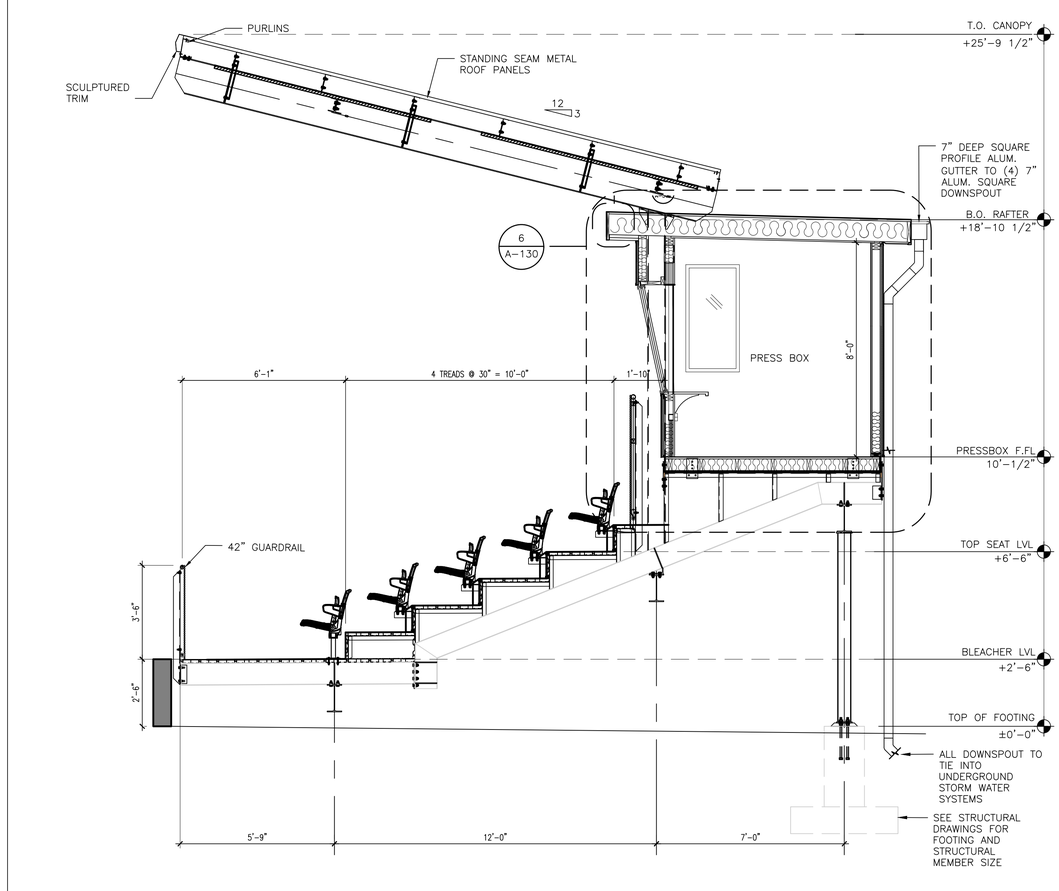


KEY PLAN



2 BASEBALL BLEACHER SECTION AT AISLE

SCALE: 3/8" = 1'-0"



1 BASEBALL BLEACHER SECTION AT PRESSBOX

SCALE: 3/8" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer:	THE LA GROUP LANDSCAPE ARCHITECTURE & PLANNING, PLLC 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866
Structural & PME Engineer:	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD, SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-006
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-001-001

150 Hammond Rd.
Pearl River, NY 10965

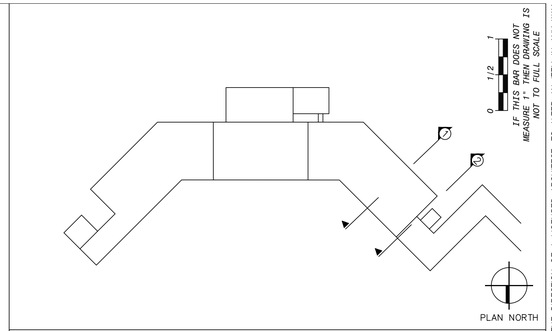
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

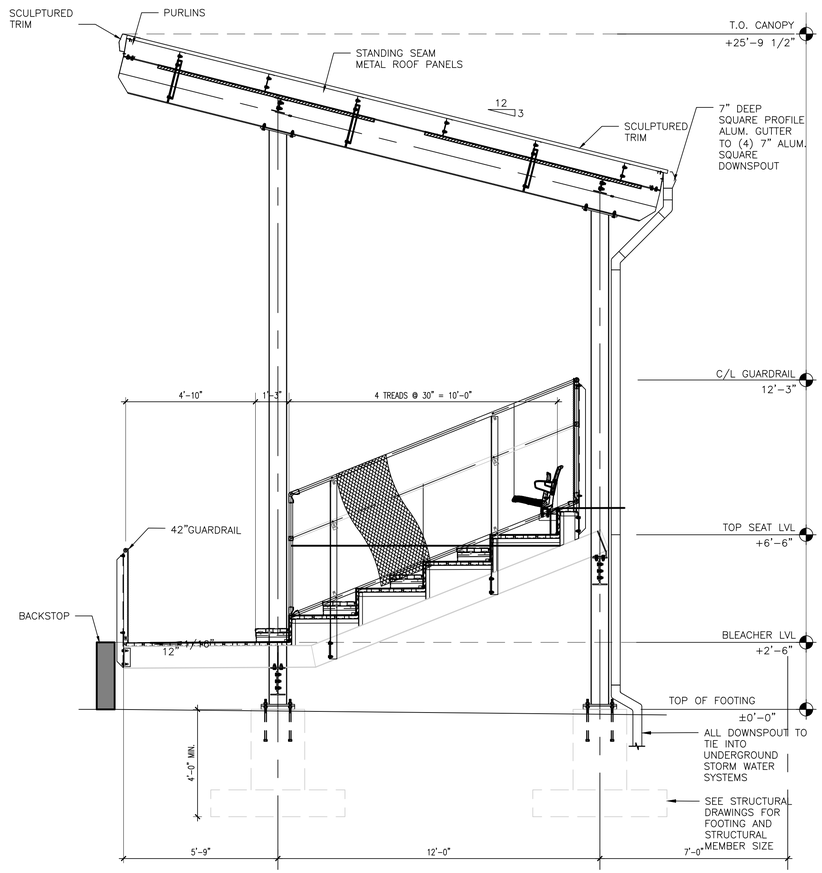
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **BASEBALL BLEACHER SECTIONS**

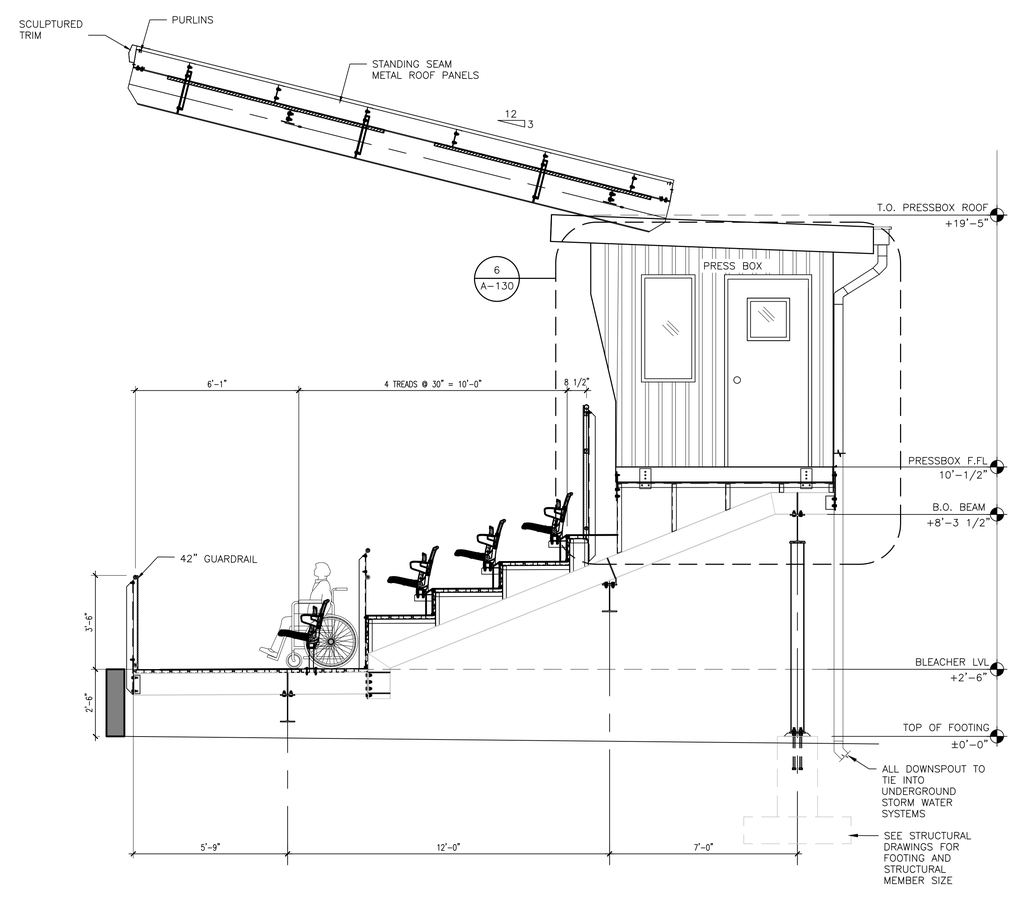
Drawing No.: **A-220**



KEY PLAN



2 BASEBALL BLEACHER SECTION AT END OF STAND
SCALE: 3/8" = 1'-0"



1 BASEBALL BLEACHER SECTION AT HANDICAP SPACE
SCALE: 3/8" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	MAL/JR
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC
45 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL#: 50-02-01-06-0-016-000
PRESS BOX - SOFTBALL SBL#: 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL#: 50-02-01-06-7-001-001

190 Rosmoor Rd,
Suffern, NY 10901

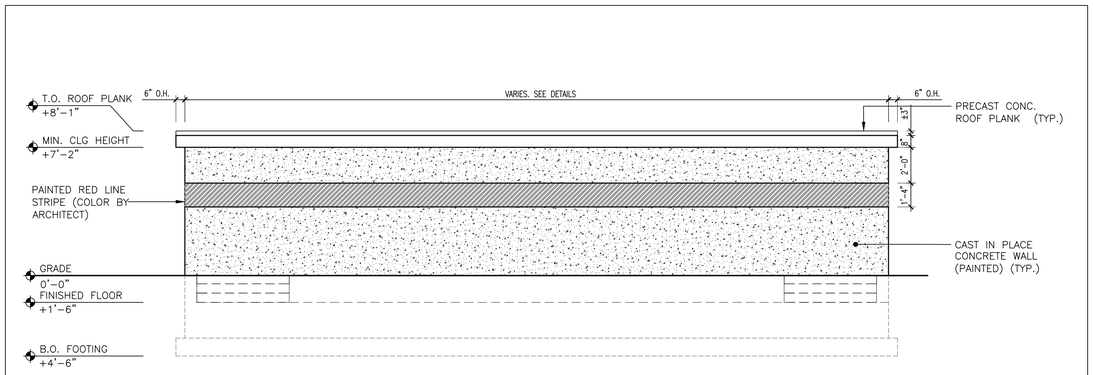
TOWN OF ramapo
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

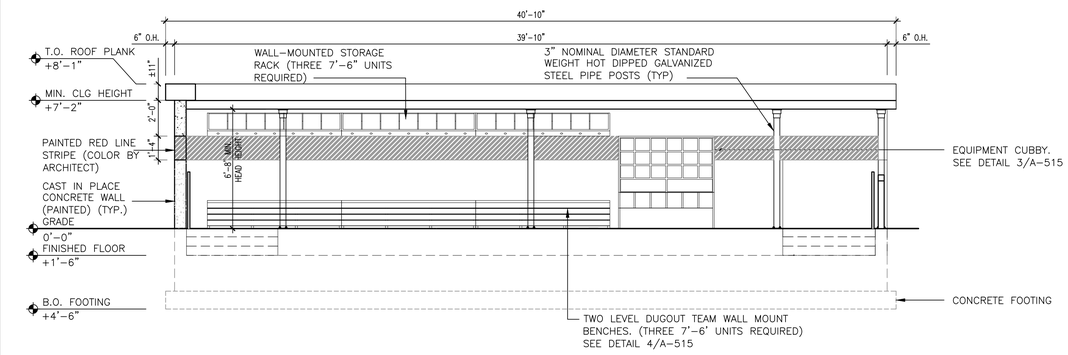
Drawing Title
BASEBALL BLEACHER SECTIONS

Drawing No.
A-221



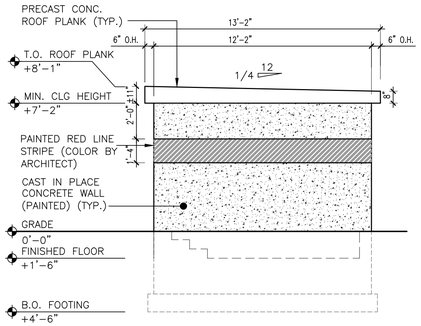
4 HOME & VISITING TEAM DUGOUT - REAR ELEVATION

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



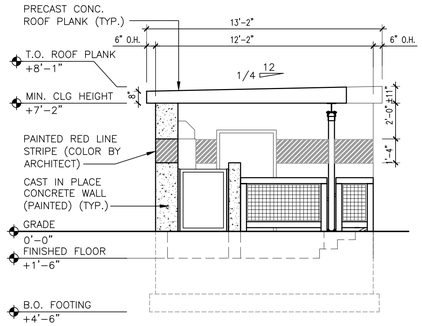
2 VISITING TEAM DUGOUT - FRONT ELEVATION

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



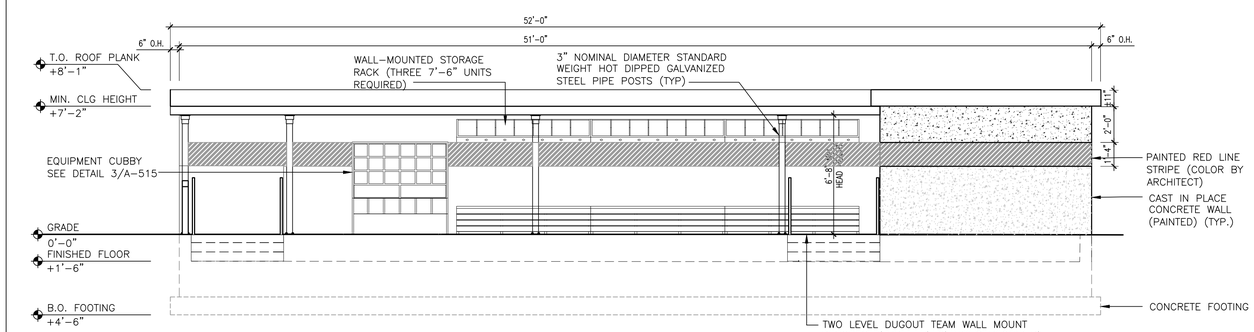
5 NORTH ELEVATION

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



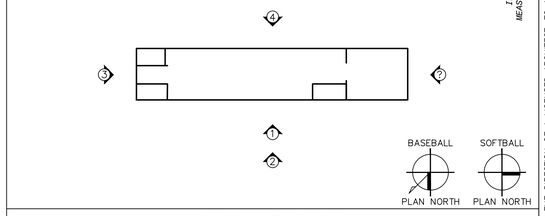
3 SOUTH ELEVATION

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



1 HOME TEAM DUGOUT - FRONT ELEVATION

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



KEY PLAN

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	RH
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901
Structural & PME Engineer:

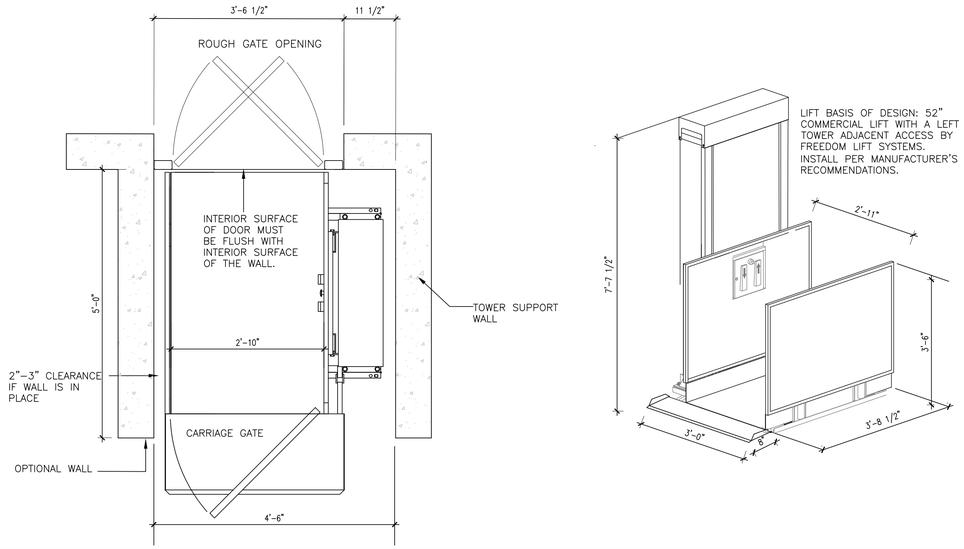
NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-009-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND
700 Hamrongh Rd,
Stony Point, NY 10980

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

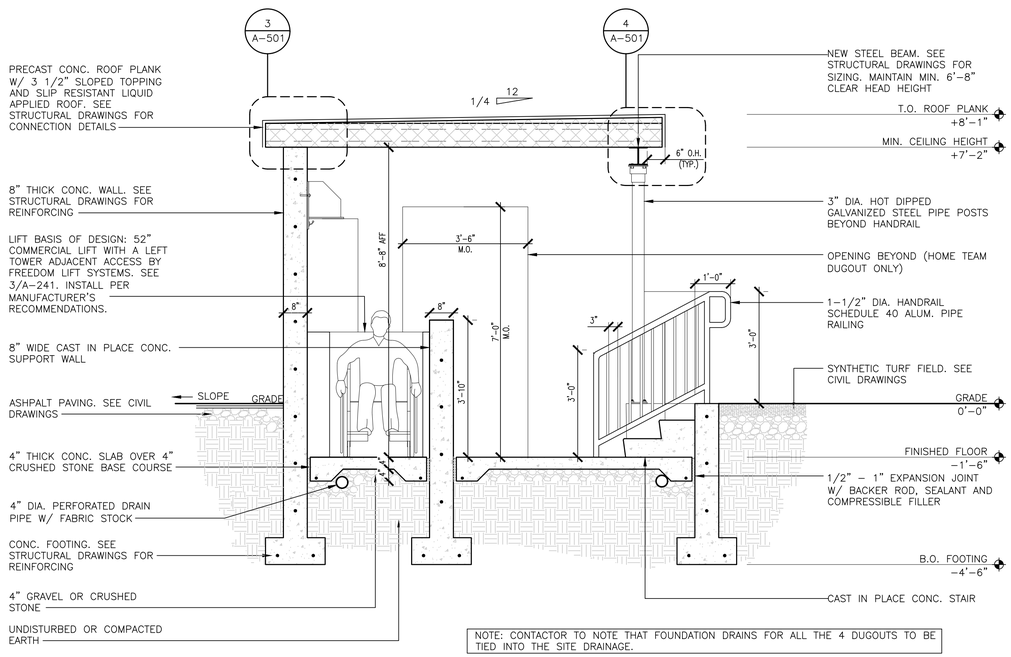
Drawing Title
DUGOUT ELEVATIONS

Drawing No.
A-240



3 PLAN AND AXONOMETRIC VIEW OF LIFT

SCALE: 3/4"=1-0"'



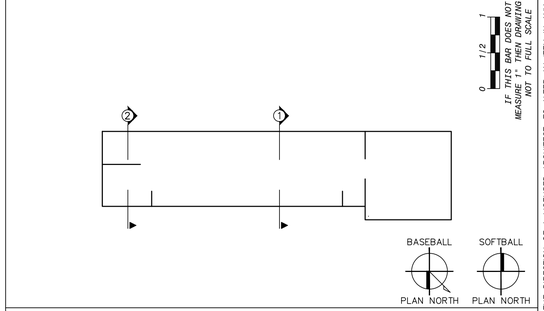
NOTE: CONTACTOR TO NOTE THAT FOUNDATION DRAINS FOR ALL THE 4 DUGOUTS TO BE TIED INTO THE SITE DRAINAGE.

2 TYPICAL DUGOUT SECTION AT LIFT

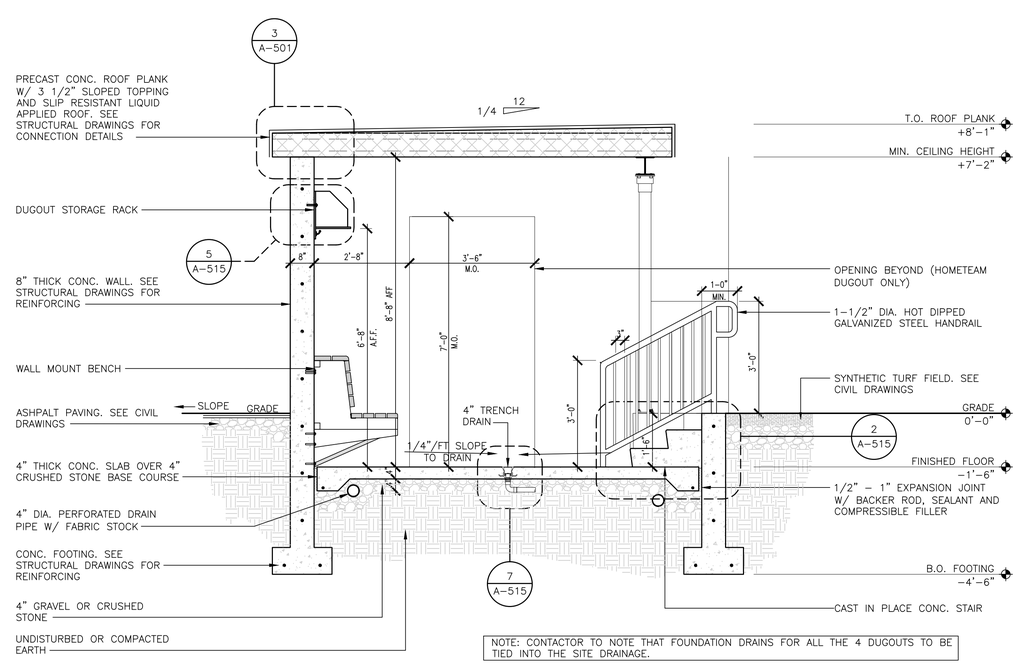
SCALE: 1/2" = 1'-0"

1. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE REINFORCING, COLUMNS AND BEAMS INFORMATION.

GENERAL NOTES



KEY PLAN



NOTE: CONTACTOR TO NOTE THAT FOUNDATION DRAINS FOR ALL THE 4 DUGOUTS TO BE TIED INTO THE SITE DRAINAGE.

1 TYPICAL DUGOUT SECTION AT STAIR

SCALE: 1/2" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	RH
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer: THE LA GROUP, LANDSCAPE ARCHITECTURE & PLANNING, P.C., 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: GREENMAN PEDERSEN, INC, 2 EXECUTIVE BOULEVARD, SUITE 502, SUFFERN, NY 10901

TOWN OF HAVERSTRAW COUNTY OF ROCKLAND

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-090-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-091-001

150 Hamptonburgh Rd, Suffern, NY 10901

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **DUGOUT SECTIONS**

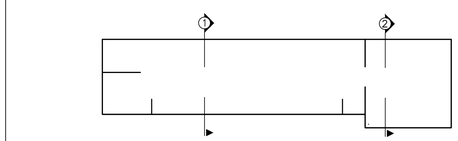
Drawing No.: **A-241**

LEGEND

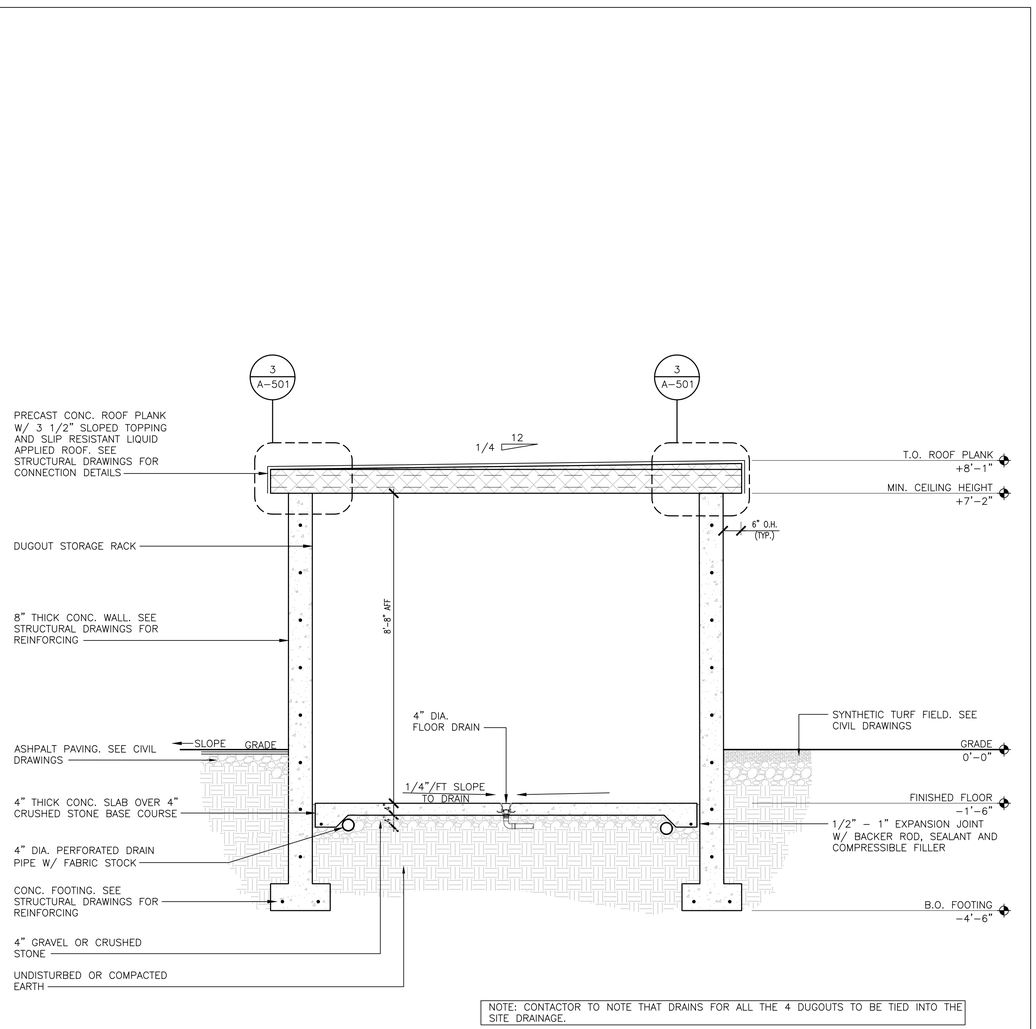
GENERAL NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE REINFORCING, BEAMS AND COLUMNS INFORMATION.

KEY PLAN



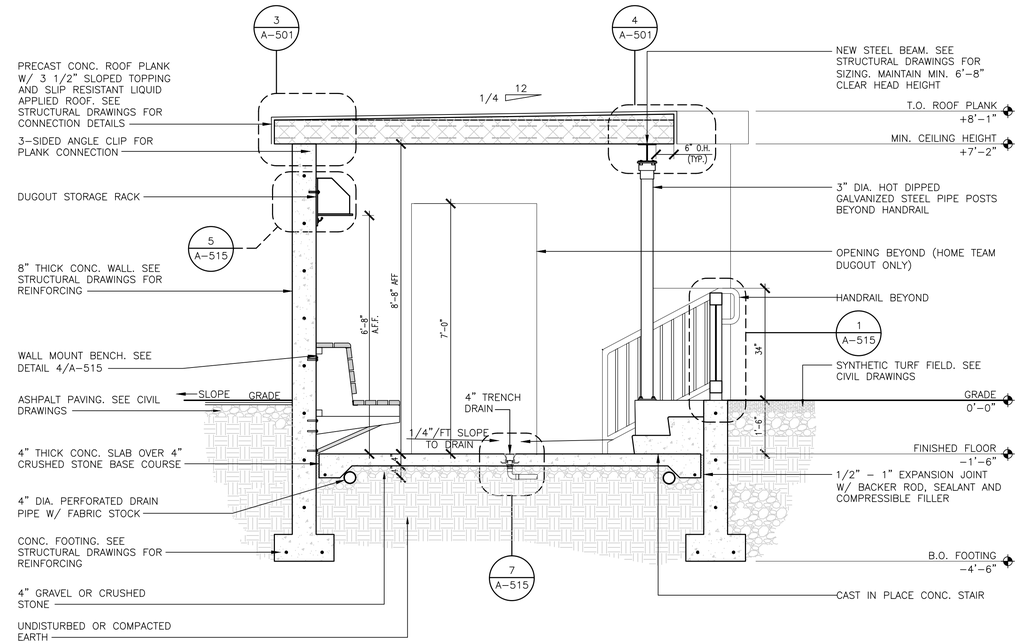
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE



NOTE: CONTACTOR TO NOTE THAT DRAINS FOR ALL THE 4 DUGOUTS TO BE TIED INTO THE SITE DRAINAGE.

2 TYPICAL DUGOUT SECTION AT STORAGE

SCALE: 1/2" = 1'-0"



NOTE: CONTACTOR TO NOTE THAT DRAINS FOR ALL THE 4 DUGOUTS TO BE TIED INTO THE SITE DRAINAGE.

1 TYPICAL DUGOUT SECTION AT GUARDRAIL

SCALE: 1/2" = 1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	RH
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-016-006
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-090-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-091-001
150 Haverstraw Rd.
Suffern, NY 10901
TOWN OF ramapo
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: **DUGOUT SECTIONS**

Drawing No. **A-242**

AREA OF CEILING TILE/GRID REMOVAL AND REINSTALLATION AS REQUIRED

LEGEND

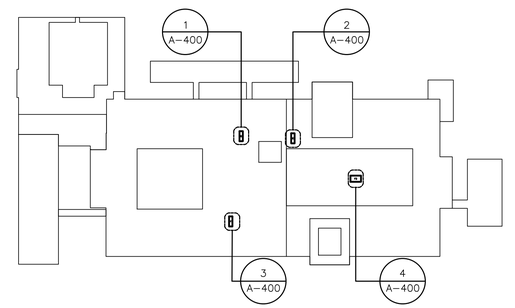
1. COORDINATE WITH STRUCTURAL DRAWINGS FOR LOCATIONS OF STEEL REINFORCEMENT. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

GENERAL NOTES

A10 CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILES AND GRID TO FACILITATE INSTALLATION OF STEEL AS REQUIRED.

A11 CONTRACTOR MUST REPLACE WITH NEW CEILING TILES AND GRID THAT HAVE BEEN BROKEN OR DAMAGED BY THEIR WORK. CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT OF ANY DAMAGED TILES OR GRID PRIOR TO START OF WORK. CONTRACTOR WILL PROVIDE SUBMITTAL ON CEILING TILE THAT BEST MATCHES CEILING TILE BEING REPLACED IN EACH AREA. SEE FINISH SCHEDULE. USE ACT1 FOR 2X2 GRID AND ACT2 FOR 2X4 GRID.

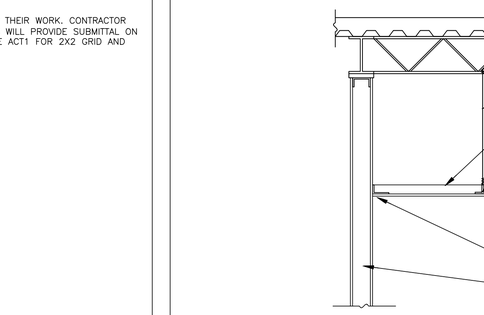
KEY NOTES



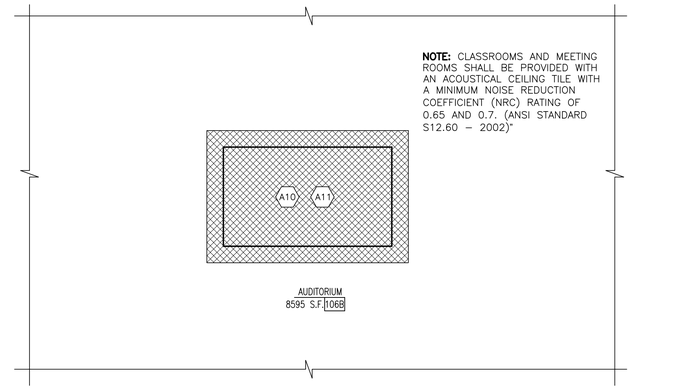
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE

PLAN NORTH

KEY PLAN

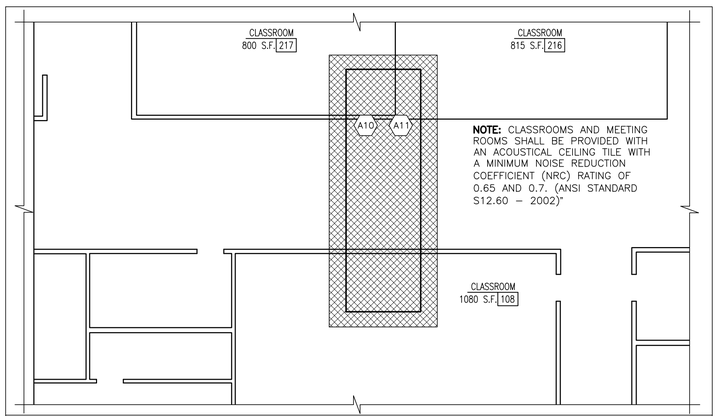


5 CEILING TILE DETAIL
SCALE: N.T.S



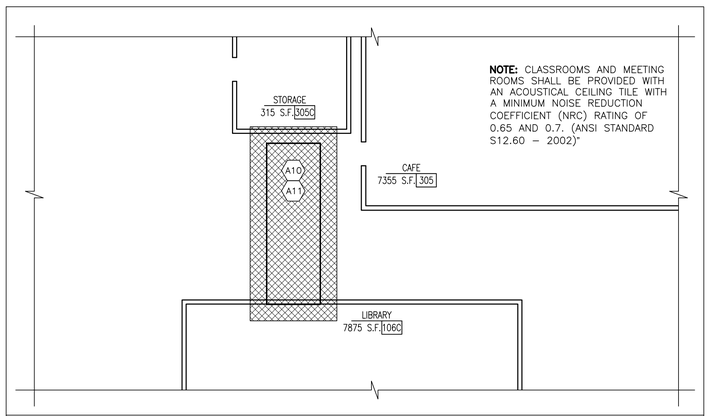
4 F2 (ALT NO. 1)
SCALE: 1/8"=1'-0"

PLAN NORTH

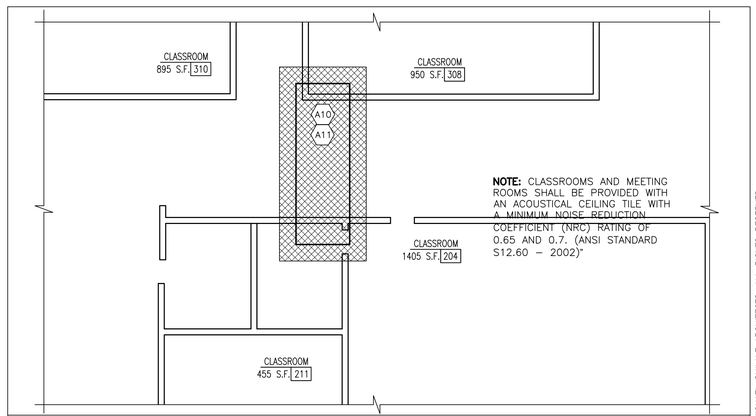


3 H1
SCALE: 1/8"=1'-0"

PLAN NORTH



2 B3
SCALE: 1/8"=1'-0"



1 B2
SCALE: 1/8"=1'-0"

PLAN NORTH

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by	JR/MAL
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
69 CLIFTON COUNTRY RD. SUITE 207
CLIFTON PARK, NY 12065
518.877.7160
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD, SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SED# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SED# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SED# 50-02-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

105 Hamerond Rd.
Haverstraw, NY 10927

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8200
www.shilale.com

Drawing Title: CEILING REMOVAL & INSTALLATION PLAN

Drawing No. A-400

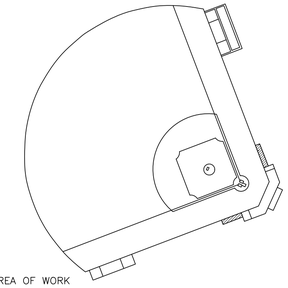
1X4 SURFACE MOUNTED LED FIXTURE

2X4 SURFACE MOUNTED LED FIXTURE

LEGEND

1. REFER TO ELECTRICAL DRAWINGS FOR MORE DETAILS

GENERAL NOTES



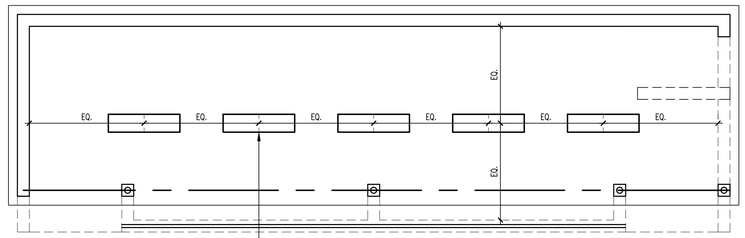
AREA OF WORK

PLAN NORTH

0 1/2 1

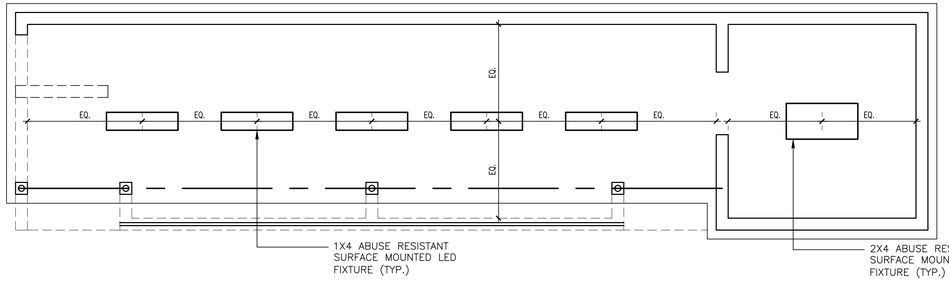
IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE

KEY PLAN



2 VISITING TEAM DUGOUT REFLECTED CLG PLAN

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



1 HOME TEAM DUGOUT REFLECTED CLG PLAN

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

BASEBALL PLAN NORTH

SOFTBALL PLAN NORTH

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by RH
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-4-016-000
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-009-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-091-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

156 Hamsond Rd.
Haverstraw, NY 10927

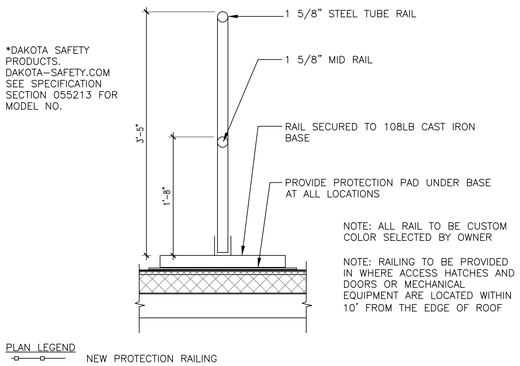
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

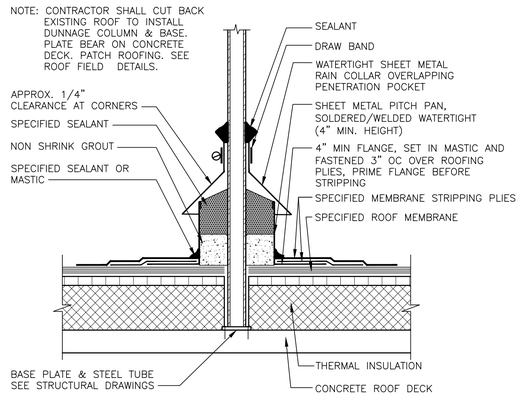
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: DUGOUT REFLECTED CLG PLANS

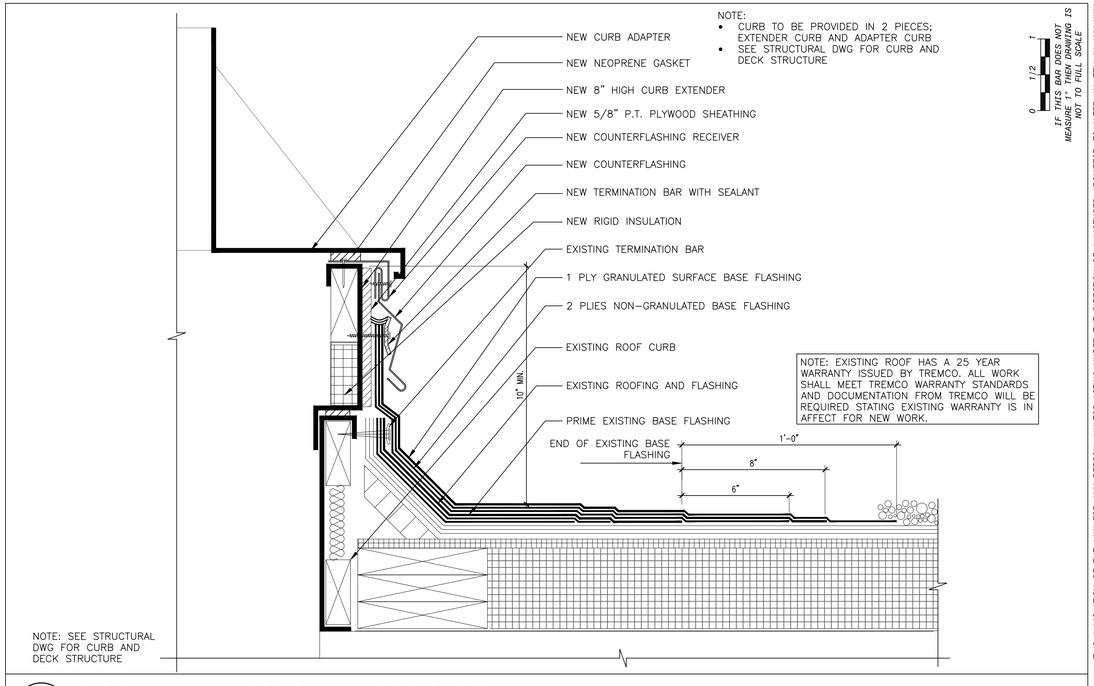
Drawing No. A-440



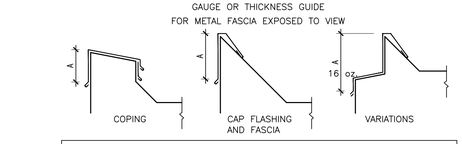
6 PROTECTION RAILING DETAIL
SCALE: 1"=1'-0"



4 PITCH POCKET AT ROOF DUNNAGE
SCALE: 3" = 1'-0"



2 TYPICAL CURB ADAPTER DETAIL
SCALE: 3"=1'-0"

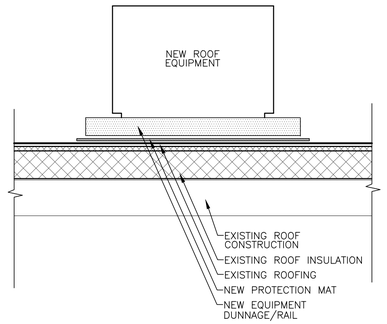


RECOMMENDED MINIMUM GAUGES FOR FASCIA SHOWN ABOVE				
EXPOSED FACE WITHOUT BREAKS "A" DIMENSION	CLEAT REQUIRED	GALVANIZED IRON	COLD ROLLED COPPER	ALUMINUM 3003-H14
UP TO 4" FACE	NO	26 GA.	16 oz.	.032" (20 GA.)
4" TO 6" FACE	YES	26 GA.	16 oz.	.040" (18 GA.)
6" TO 8" FACE	YES	24 GA.		.050" (16 GA.)
8" TO 10" FACE	YES	22 GA.	20 oz.	.064" (14 GA.)
10" TO 15" FACE	YES	20 GA.	ADD BRAKES TO STIFFEN	.080" (12 GA.)

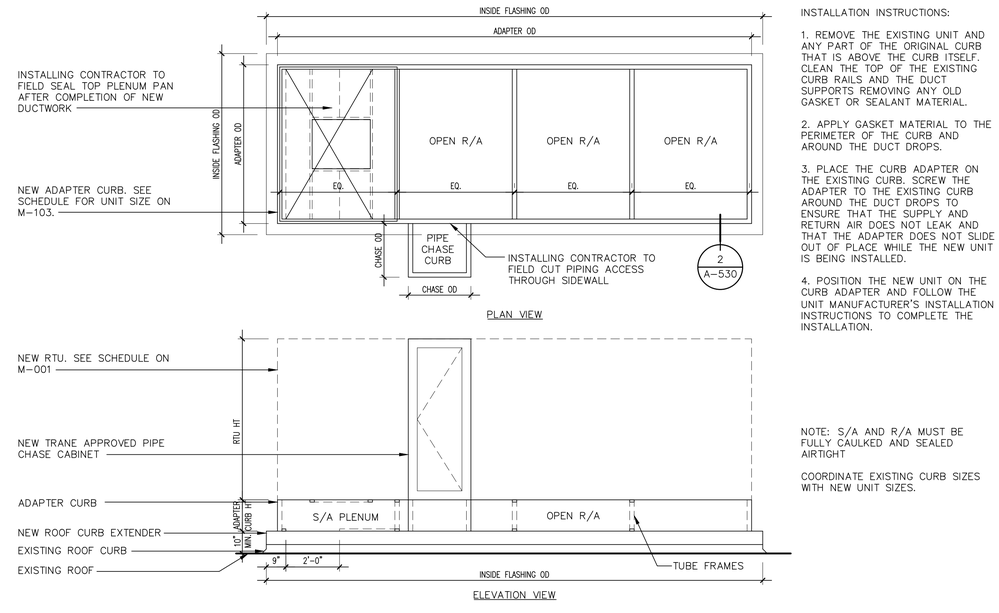
NOTE:

1. WHEN USING THE ABOVE TABLE, OTHER ITEMS SHOULD BE CONSIDERED, SUCH AS FASTENING PATTERN. FOR INSTANCE, IF THE METAL CAN ONLY BE FASTENED AT 100" FOOT INTERVALS, A HEAVIER GAUGE METAL WOULD BE REQUIRED. ALL CLEATS SHALL BE CONTINUOUS AND OF SAME MATERIAL OF EQUAL OR GREATER THICKNESS THAN THE FASCIA METAL USED.

5 FASCIA THICKNESS
SCALE: N.T.S.



3 PROTECTION MAT DETAIL
SCALE: 3" = 1'-0"



INSTALLATION INSTRUCTIONS:

1. REMOVE THE EXISTING UNIT AND ANY PART OF THE ORIGINAL CURB THAT IS ABOVE THE CURB ITSELF. CLEAN THE TOP OF THE EXISTING CURB RAILS AND THE DUCT SUPPORTS REMOVING ANY OLD GASKET OR SEALANT MATERIAL.

2. APPLY GASKET MATERIAL TO THE PERIMETER OF THE CURB AND AROUND THE DUCT DROPS.

3. PLACE THE CURB ADAPTER ON THE EXISTING CURB. SCREW THE ADAPTER TO THE EXISTING CURB AROUND THE DUCT DROPS TO ENSURE THAT THE SUPPLY AND RETURN AIR DOES NOT LEAK AND THAT THE ADAPTER DOES NOT SLIDE OUT OF PLACE WHILE THE NEW UNIT IS BEING INSTALLED.

4. POSITION THE NEW UNIT ON THE CURB ADAPTER AND FOLLOW THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS TO COMPLETE THE INSTALLATION.

NOTE: S/A AND R/A MUST BE FULLY CAULKED AND SEALED AIRTIGHT

COORDINATE EXISTING CURB SIZES WITH NEW UNIT SIZES.

1 TYPICAL CURB DETAIL
SCALE: 3/8"=1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by SP
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

Landscape Architect & Civil Engineer:
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-600-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-601-001

186 Hammond Rd.
Thiells, NY 10984

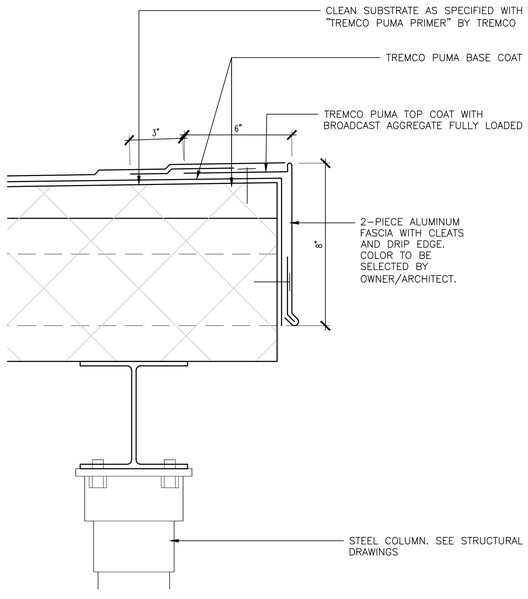
TOWN OF CLARKSTOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, LLP.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

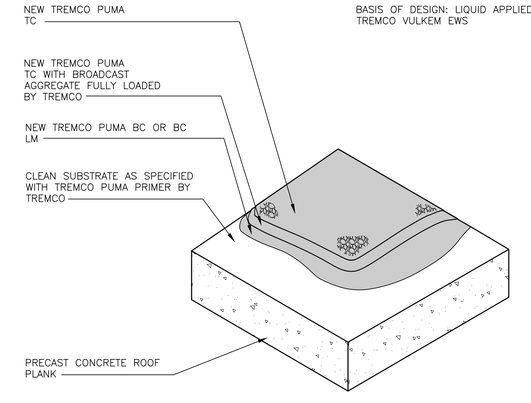
Drawing Title: **ROOF DETAILS**

Drawing No. **A-500**



4 LIQUID APPLIED ROOF AT DUGOUT

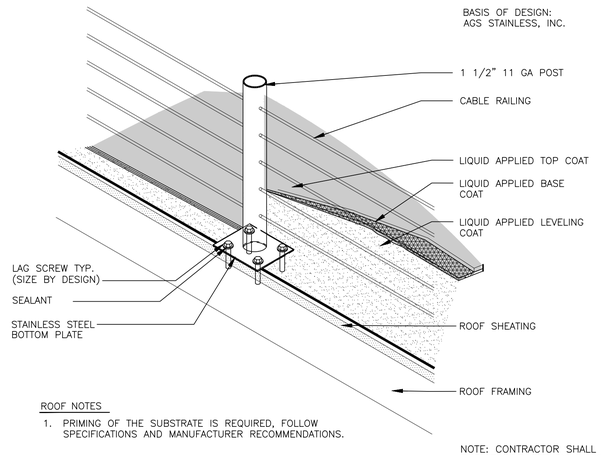
SCALE: 3"=1'-0"



BASIS OF DESIGN: LIQUID APPLIED TREMCO VULKEM EWS

2 TYP. LIQUID APPLIED ROOFING

SCALE: 3"=1'-0"



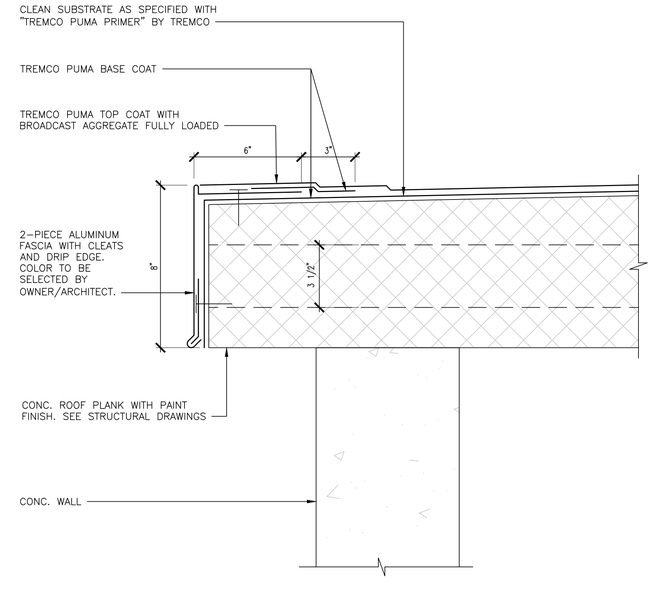
ROOF NOTES

1. PRIMING OF THE SUBSTRATE IS REQUIRED, FOLLOW SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS.

NOTE: CONTRACTOR SHALL SUBMIT S&S SET BY A NYSPE. SHOP DRAWINGS TO INDICATE CODE COMPLIANCE WITH NYS BUILDING CODE FOR THE HANDRAIL & GUARDRAIL LOADING REQUIREMENTS.

5 PARAPET RAILING DETAIL AT FIELD HOCKEY PRESSBOX

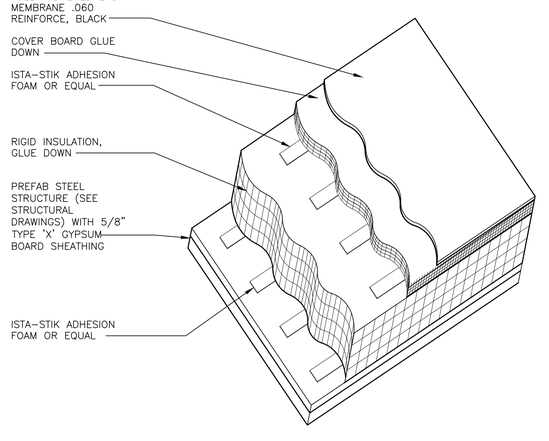
SCALE: N.T.S.



3 LIQUID APPLIED ROOF AT DUGOUT

SCALE: 3"=1'-0"

NOTE: ROOF INSULATION TO BE MIN R-38 AND R-30ci WHERE INSULATION IS ENTIRELY ABOVE ROOF DECK



1 TYP. EPDM ROOFING SYSTEM

SCALE: 1 1/2"=1'-0"

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by SP
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-06-23

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-030-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-001-001

186 Hammond Rd.
Pomona, NY 10970

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ROOF DETAILS

Drawing No.
A-501

1 FASCIA DETAIL AT PRESSBOX ROOF

SCALE: 3"=1'-0"

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
ROOF DETAILS

Drawing No.
A-502

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

NORTH ROCKLAND
HIGH SCHOOL
FIELDS - PHASE 2 &
HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL: SBL# 50-02-01-06-7-001-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

IF THIS BAR DOES NOT MEASURE 1, THEN DRAWING IS NOT TO FULL SCALE
0 1/2 1

Drawn by	JJ
Checked by	MS/JC
Project No.	43045
Scale	AS NOTED
Date	10-06-23

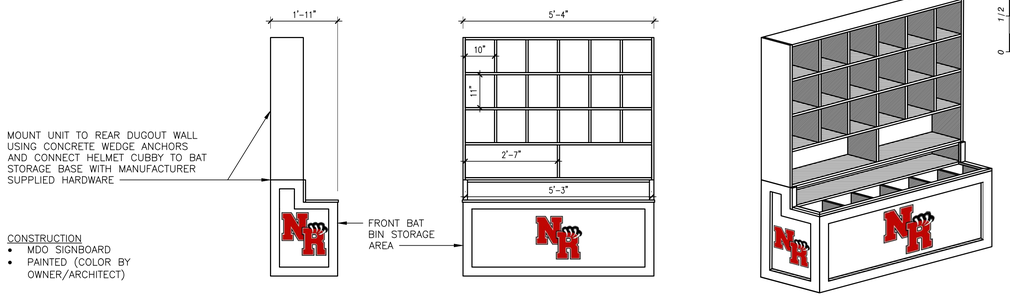
REG. EXP DATE: 06-30-24

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
45 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD,
SUITE 502, SUFFERN, NY 10901

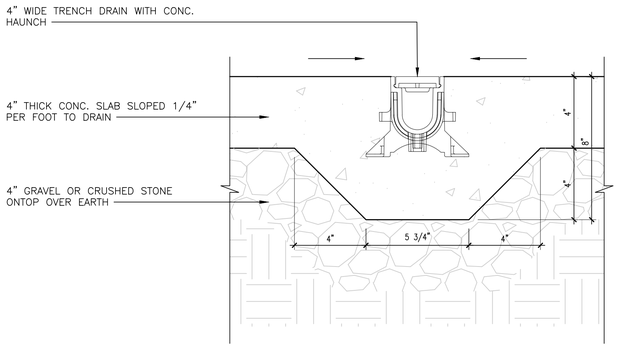
NOTE: SEE SPECIFICATIONS FOR BASIS OF DESIGN



CONSTRUCTION
- MDO SIGNBOARD
- PAINTED (COLOR BY OWNER/ARCHITECT)

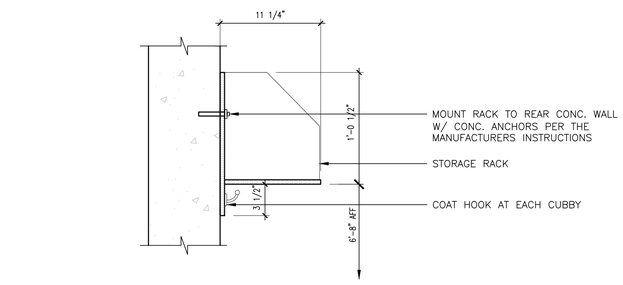
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2, 1)

3 EQUIPMENT CUBBY
SCALE: 1/2"=1'-0"

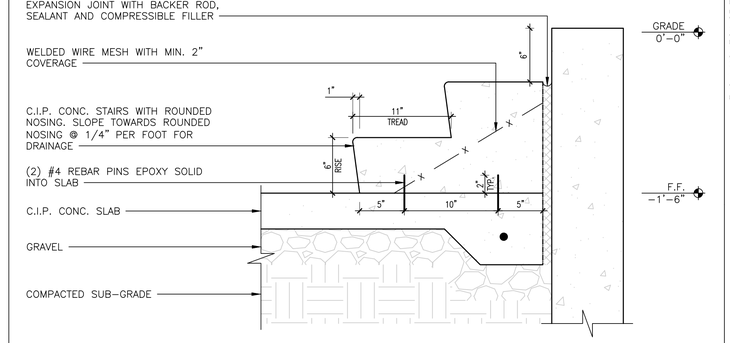


7 TRENCH DRAIN DETAIL
SCALE: 3"=1'-0"

NOTE: SEE SPECIFICATIONS FOR BASIS OF DESIGN

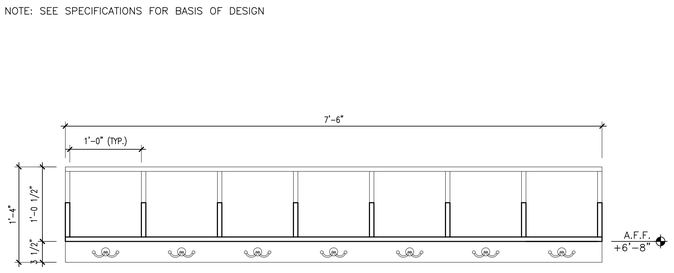


5 DUGOUT STORAGE RACK SECTION
SCALE: 1-1/2"=1'-0"



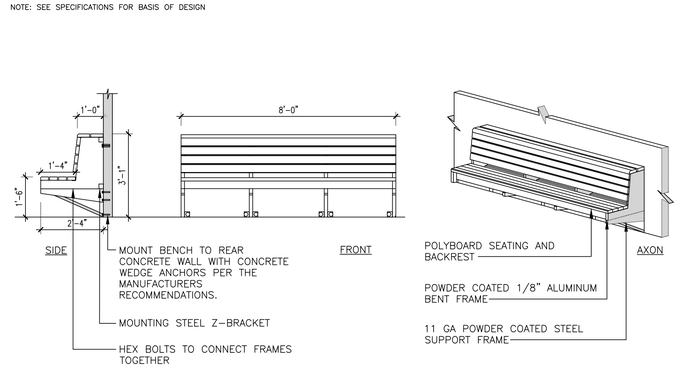
2 CONCRETE STAIR DETAIL
SCALE: 1-1/2" = 1'-0"

NOTE: SEE SPECIFICATIONS FOR BASIS OF DESIGN



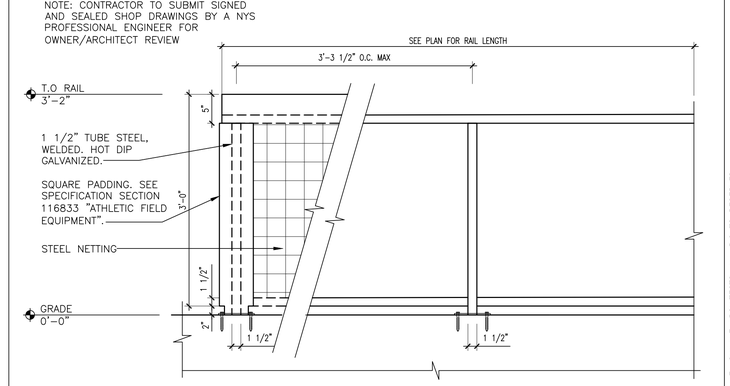
6 DUGOUT STORAGE RACK ELEVATION
SCALE: 1"=1'-0"

NOTE: SEE SPECIFICATIONS FOR BASIS OF DESIGN



4 WALL MOUNT TWO TIER BENCH
SCALE: 3/8"=1'-0"

NOTE: CONTRACTOR TO SUBMIT SIGNED AND SEALED SHOP DRAWINGS BY A NYS PROFESSIONAL ENGINEER FOR OWNER/ARCHITECT REVIEW



1 RAIL DETAIL
SCALE: 1"=1'-0"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

No.	Date	Revisions
1	10-03-24	BIDDING DOCUMENTS

REG. EXP DATE: 06-30-24

Drawn by RH
Checked by MS/JC
Project No. 43045
Scale AS NOTED
Date 10-03-24

THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
44 ADAMS ALLEY, SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
2 EXECUTIVE BOULEVARD, SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-0-016-036
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
106 Haunsrad Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title: DUGOUT DETAILS

Drawing No. A-515

SYMBOLS:

- CENTER LINE
- EXISTING TO REMAIN
- NEW PIPE, DUCTWORK OR EQUIPMENT
- PIPE DROPPING DOWN
- PIPE RISING UP
- AIR VENT
- AUTOMATIC FLOW CONTROL VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- CONCENTRIC REDUCER OR INCREASER
- ECCENTRIC REDUCER OR INCREASER
- FLEXIBLE CONNECTOR
- FLOW IN DIRECTION OF ARROW
- GATE VALVE
- GLOBE VALVE
- MODULATING CONTROL VALVE
- PRESSURE GAUGE WITH NEEDLE VALVE COCK
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- STRAINER
- THERMOMETER
- TRIPLE DUTY VALVE
- UNION
- REFRIGERANT
- D — DRAIN
- T — TEMPERATURE SENSOR/THERMOSTAT
- A — SECTION A-A

SAFETY NOTES:

1. SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT ON THE APPLICATION AND ITS INSTALLATION WILL NOT AFFECT THE FOLLOWING:
   - EGRESS TO AND FROM THE BUILDING FIRE SAFETY OR CREATE A FIRE HAZARD
   - STRUCTURAL SAFETY OF THE BUILDING.
   - ACCUMULATION OF DUST AND DEBRIS. THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEAN EACH DAY.
2. ASBESTOS MUST FIRST BE INVESTIGATED AND VERIFIED IN FIELD BEFORE ANY DEMOLITION OR CONSTRUCTION WORK TO BE PERFORMED. ASBESTOS FREE MUST BE CERTIFIED FOR ALL HVAC EQUIPMENT, DUCTWORK, AND ALL PIPING INSULATION.
3. CONSTRUCTION WORK SHALL BE CONFINED TO WORK AREAS NOTED ON THE DRAWINGS AND SHALL INVOLVE TEMPORARY INTERRUPTION OF HEATING, WATER AND ELECTRIC SERVICES TO THE BUILDING SYSTEMS ONLY AS SCHEDULED WITH NEW YORK CITY.
4. FIRE SAFETY: ALL BUILDING MATERIALS STORED IN CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY THE FACILITY AND/OR GENERAL CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE BARRICADES AROUND WORK AREAS AS REQUIRED TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THEREIN.
6. THE CONTRACTOR SHALL SUBMIT SAFETY PLAN FOR CONSTRUCTION MANAGER'S APPROVAL.
7. CONFINED SPACES: ALL WORK WITHIN CONFINED SPACES SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REGULATIONS. THE BUILDING 'E' TUNNEL LEVEL AND THE 'DEEP SIX' TUNNEL HAVE ONLY ONE ENTRANCE/EXIT AND SHALL BE CONSIDERED CONFINED SPACES.

SUMMARY OF WORK:

1. PROVIDE AND INSTALL SPLIT SYSTEM DUCTLESS HEAT PUMP WITH THERMOSTAT IN ALL PRESS BOXES.
2. PROVIDE AND INSTALL ELECTRIC UNIT HEATER IN ALL PRESS BOXES.
3. REMOVE AND REPLACE FOUR RTU'S WITH HOT WATER AND COLD WATER PIPING ON MAIN HIGH SCHOOL BUILDING.

SEQUENCE OF OPERATIONS

FOR SEQUENCE OF ALL UNITS SPECIFIED ON THESE PLANS, REFER TO SPECIFICATION SECTION 230993 SEQUENCE OF OPERATION. SEE DRAWING M401 FOR CONTROL DIAGRAMS.

GENERAL NOTES

1. THE FULL DEMOLITION SCOPE IS NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE DEMOLITION WORK CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK. SURVEY THE PREMISES TO ACCURATELY DETERMINE THE FULL SCOPE OF THE REMOVAL AND DISPOSAL WORK. NO ADDITIONAL PAYMENTS WILL BE MADE DUE TO CONTRACTOR'S FAILURE TO ADEQUATELY SURVEY THE PREMISES.
2. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF EQUIPMENT FROM SITE INDICATED FOR DEMOLITION, UNLESS OTHERWISE DIRECTED BY THE AUTHORITY.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE POWER SUPPLIES, ELECTRICAL WIRING AND CONDUIT FOR POWER AND CONTROL TO PNEUMATIC OR MOTORIZED DAMPER AND VALVE OPERATORS, THERMOSTATS, AUTOMATIC CONTROL INSTRUMENTATION. COORDINATE WITH THE ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
4. FOR POWERED EQUIPMENT INTENDED FOR DEMOLITION, THE CONTRACTOR SHALL COORDINATE SHUT-OFF POWER SUPPLIES AND DISCONNECT SWITCHES ASSOCIATED WITH THE EQUIPMENT TO BE DISCONNECTED. RECONNECT ELECTRICAL POWER TO NEW EQUIPMENT AFTER INSTALLATION. PROVIDE ELECTRICAL MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
5. TEMPORARY SHUTDOWNS OF SERVICE OF EXISTING ELECTRICAL, STEAM, HEATING, AIR CONDITIONING AND VENTILATION SYSTEMS SHALL BE PERFORMED WITH A MINIMUM OF DISRUPTION OF SERVICE, HELD TO AN ABSOLUTE MINIMUM DURATION OF TIME, AND ONLY AFTER HAVING NOTIFIED THE BUILDING OPERATIONS MANAGEMENT AT LEAST TWO WEEKS IN ADVANCE AND HAVING RECEIVED THEIR PERMISSION IN WRITING, AT LEAST TWO WEEKS PRIOR TO THE SCHEDULED SHUTDOWN. COMMUNICATIONS SHALL BE RELAYED THROUGH THE OWNER'S REPRESENTATIVE.
6. LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS, SPECIFICALLY ASHRAE HANDBOOK - FUNDAMENTALS.
7. CONTRACTOR SHALL PERFORM ALL TESTS AND STARTUP PROCEDURES FOR EACH VENTILATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURER AND SPECIFICATIONS.
8. ALL THERMOSTATIC CONTROLS SHALL BE TESTED FOR FUNCTIONALITY AND PROPER OPERATION AS REQUIRED BY NYS ECC.
9. ELECTRIC MOTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE ENERGY POLICY ACT OF 1992 AS SHOWN IN ASHRAE 90.1-2013 TABLE #10.8.
10. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PROVIDE CONTROL WIRING. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE ALL POWER SUPPLIES, ELECTRICAL WIRING AND CONDUIT FOR POWER AND CONTROL TO ALL VALVE OPERATORS, THERMOSTATS AND AUTOMATIC CONTROL INSTRUMENTATION. ELECTRICAL CONTRACTOR TO INSTALL AND ROUTE POWER WIRING FOR EACH MECHANICAL SYSTEM.
11. MOUNTING HEIGHTS FOR ASSOCIATED MECHANICAL THERMOSTAT CONTROLS, ETC. SHALL MEET THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES. MOUNTING HEIGHTS FOR ALL THERMOSTATS, ETC SHALL BE 48" AFF.

HVAC DESIGN CRITERIA

A. SITE (BASED ON NEAREST AVAILABLE DATA: ASHRAE 2013 HANDBOOK CLIMATIC DESIGN INFORMATION, WESTCHESTER CO, NY):
   1. 41.07°N, 73.71°W
   2. ELEVATION: 397 FT
   3. CLIMATE ZONE 5A.

B. OUTSIDE DESIGN CONDITIONS (BASED ON NEAREST AVAILABLE DATA: ASHRAE 2013 CLIMATIC DESIGN INFORMATION, WESTCHESTER CO, NY):
   1. HEATING DB (99.6%): 9.0°F DB
   2. COOLING DB/MCWB (1%): 86.5°F DB, 72.1°F WB

C. INSIDE DESIGN CONDITIONS (PER NYSED MANUAL OF PLANNING STANDARDS S602-6 B. AND 2015 ASHRAE HANDBOOK CH 7 TABLE 6):
   1. HEATING INDOOR SETPOINT: 72°F
   2. COOLING INDOOR SETPOINT: 78°F, 60% RH

D. ACOUSTICS (PER NYSED MANUAL OF PLANNING STANDARDS, TABLE S304-1):
   1. DESIGN REQUIREMENTS FOR HVAC SYSTEM NOISE FOR CLASSROOMS, 7-12: RC 25-30.

E. FILTRATION: MERV 13 (PER NYSED MANUAL OF PLANNING STANDARDS).

F. DEMAND CONTROLLED VENTILATION NOT REQUIRED PER ECCNYS C403.2.6.1 EXCEPTION #3.

HVAC NOTES:

1. PROVIDE LABOR, MATERIALS, TOOLS, MACHINERY, EQUIPMENT, AND SERVICES NECESSARY TO COMPLETE THE HVAC WORK UNDER THIS CONTRACT. ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETE IN EVERY ASPECT AND ALL ITEMS OF MATERIAL, EQUIPMENT AND LABOR SHALL BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM AND READY FOR USE. COORDINATE THE WORK WITH THE WORK OF THE OTHER SUBCONTRACTORS IN ORDER TO RESOLVE ALL CONFLICTS WITHOUT IMPEDING THE JOB PROGRESS.
2. EXAMINE THE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AND OTHER DIVISIONS, AND SECTIONS OF THE SPECIFICATIONS IN ORDER TO DETERMINE THE EXTENT OF THE WORK REQUIRED TO BE COMPLETED UNDER THIS DIVISION. FAILURE TO EXAMINE ALL THE CONTRACT DOCUMENTS FOR THIS PROJECT WILL NOT RELIEVE THIS CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK REQUIRED FOR A COMPLETE FULLY OPERATIONAL AND SATISFACTORY INSTALLATION.
3. START-UP SERVICES SHALL BE INCLUDED.
4. ALL SYSTEMS, EQUIPMENT AND SERVICES SPECIFIED HEREIN SHALL BE PROVIDED COMPLETE AND READY FOR USE. ALL EQUIPMENT, DUCTWORK, PIPING, DAMPERS, OUTLETS ARE NEW, FURNISHED AND INSTALLED BY THIS CONTRACTOR, UNLESS OTHERWISE NOTED.
5. DUCTWORK AND PIPING ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ENGINEER. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER SUBCONTRACTORS IS REQUIRED. PROVIDE COORDINATION DRAWINGS SHOWING ALL TRADES WORK AND EXISTING CONDITION.
6. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
7. VERIFY FINAL LOCATIONS FOR ROUGH WORK WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT BEING CONNECTED.
8. PROVIDE A COMPLETE SYSTEM OF VIBRATION ISOLATION FOR EACH ITEM OF HVAC EQUIPMENT AND APPARATUS AS SPECIFIED HEREIN, AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
9. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
10. CONTRACTOR IS RESPONSIBLE TO ATTEND COORDINATION MEETING WITH ALL TRADES TO DETERMINE LOCATIONS OF DEVICES AND DISCOVER IF ANY CONFLICTS MAY EXIST.
11. ALL PIPING EXPOSED OR INSULATED, DUCTWORK, CONDUIT AND CONTROL WIRING SHALL BE CONCEALED IN CEILINGS, WALLS AND FLOORS OR CONCEALED IN NEW SOFFITS OR FRAMED ENCLOSURES.
12. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 2014 NYC BUILDING CODE, 2014 NYC MECHANICAL CODE, AND 2020 NYC ENERGY CONSERVATION CODE, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.
13. PROVIDE A COMPLETE OPERABLE SYSTEM IN A WORKMANLIKE MANNER. OUTLINE DESCRIPTION AND EQUIPMENT; DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM.
14. VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE DUE FOR FAILURE TO DO SO.
15. CONTRACTOR TO BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID. ALL WORK SHOWN ON THE DRAWINGS NOT SPECIFICALLY CALLED OUT AS EXISTING SHALL BE CONSIDERED WORK TO BE PERFORMED UNDER THIS CONTRACT.
16. BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF ANY ERROR DUE TO THE CONTRACTOR'S NEGLECT TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER.
17. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED.
18. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK. RESTORE WALLS AND CEILINGS TO MATCH EXISTING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
20. THE TERM "FINISH FLOOR" SHALL MEAN THE NORMAL FINISHED SURFACE OF THE FLOOR LEVEL. ALL ELEVATIONS GIVEN FOR EXISTING BUILDINGS ARE TO FINISHED FLOOR. THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS FOR EXISTING STRUCTURES PRIOR TO THE COMMENCEMENT OF WORK.
21. THE CONTRACTOR SHALL PATCH AND REPAIR ALL FLOORS, WALLS, CEILINGS, ETC. DAMAGED OR EXPOSED DUE TO WORK OR REMOVALS AND FINISH TO MATCH ADJOINING SURFACES.
22. WHERE MANUFACTURERS NAMES AND PRODUCT NUMBERS ARE INDICATED ON THE DRAWINGS IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHING OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL.
23. DRAWINGS ARE NOT TO BE SCALED. USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
24. ALL WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS "EXISTING TO REMAIN".
25. DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER, SHALL BE INCLUDED IN THE WORK THE SAME AS IF HEREIN SPECIFIED OR INDICATED.
26. ALL WORK SHALL BE INSTALLED SO THAT ALL PARTS REQUIRED ARE READILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR.
27. CONTRACTOR SHALL KEEP WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE, AND SHALL HAVE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS FROM ENTRY BY UNAUTHORIZED PARTIES. WORK AREA WILL BE LEFT BROOM CLEAN AT THE END OF COMPLETION OF WORK AND UNTIL THE SPACE IS READY TO BE OCCUPIED.
28. PROVIDE BARRICADES AROUND WORK AREAS AS REQUIRED TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THEREIN.
29. THE WORD "PROVIDE" USED ON DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT MEANS "FURNISH AND INSTALL". WHEN ONLY ONE PART OF ACTION IS REQUIRED, EITHER "FURNISH" OR "INSTALL" WILL BE USED ACCORDINGLY (TYP., U.O.W.N.).
30. ALL DISCONNECT SWITCHES, STARTERS, AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
31. PROVIDE OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT SPECIFIED IN THE SCHEDULES ON THIS DRAWING TO THE BUILDING OWNER WITHIN 90 DAYS AFTER SYSTEM ACCEPTANCE.

ABBREVIATIONS

ABBREVIATION:	DESCRIPTION:
A	AMPERE
AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CW	COLD WATER
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG, °	DEGREES
DP	DEW POINT
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
F	FAHRENHEIT
FA	FIRE ALARM
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
G	NATURAL GAS
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HOA	HAND/OFF/AUTO
HP	HEAT PUMP
HR	HOUR
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	INCHES
KW	KILOWATTS
LxWxH	LENGTH BY WIDTH BY HEIGHT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTU/H
MCA	MINIMUM CIRCUIT AMPACITY
MHP	MOTOR HORSEPOWER
MIN	MINIMUM, MINUTE
MM	MILLIMETER
MOP	MAXIMUM OVER-CURRENT PROTECTION
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PRESS	PRESSURE
PSIA	POUNDS PER SQUARE INCH, ABSOLUTE
PSIG	POUNDS PER SQUARE INCH, GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
REQD	REQUIRED
REV	REVISION
RM	ROOM
RTU	ROOFTOP UNIT
S	SECONDS
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SF	SQUARE FEET
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
TEMP	TEMPERATURE
THK	THICK
TOD	TOP OF DUCT
TON	12,000 BTU/H COOLING CAPACITY
TYP	TYPICAL
UH	UNIT HEATER
V	VENT, VOLTS, OR VOLUME
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS, WIDTH
WB	WET BULB
WC	WATER COLUMN

1/2" = 1" — IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
ENGINEERS, PLANNERS
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBM# 50-02-01-06-0-015-036
PRESS BOX – SOFTBALL SBM# 50-02-01-04-7-000-001
PRESS BOX – TRACK SBM# 50-02-01-05-7-001-001

106 Haverstraw Rd.
Suffern, NY 10964

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-709-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL GENERAL NOTES

Drawing No.
M-001

SPLIT SYSTEM DUCTLESS UNIT SCHEDULE

LOCATION	UNIT TAG	GENERAL										INDOOR UNIT								CONDENSING UNIT											
		CAPACITY			EER	SEER	ENT. AIR		REFRIGERANT	REFRIGERANT LBS	REFRIGERANT SAFETY CLASS	TONS	ELECTRICAL DATA				CFM	DRAIN CONNECTION	WEIGHT	MODEL NO.	UNIT TAG	ELECTRICAL DATA					COMPRESSOR		REFRIGERANT LINES		WEIGHT (LBS.)	MODEL NO.
		TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL HEATING @ 17° F MBH			DB °F	WB °F					VOLTS	PHASE	Hz.	MIN. AMPACITY					VOLTS	PHASE	Hz.	MOCP	MIN. AMPACITY	R.L.A	L.R.A	SUCTION IN	LIQUID IN		
SOFTBALL PRESSBOX	AHU - 1	12	9.6	10.6	13.3	21.3	95	75	410A	4.4375	A1	1	208	1	60	1	290	5/8	28	TPKA0A0121LA10A	ACCU-1	208	1	60	28	11	7	12	1/2	1/4	93	TRUZA0121KA70NA
BASEBALL PRESSBOX	AHU - 2	12	9.6	10.6	13.3	21.3	95	75	410A	4.4375	A1	1	208	1	60	1	290	5/8	28	TPKA0A0121LA10A	ACCU-2	208	1	60	28	11	7	12	1/2	1/4	93	TRUZA0121KA70NA
FIELD HOCKEY PRESSBOX	AHU - 3	12	9.6	10.6	13.3	21.3	95	75	410A	4.4375	A1	1	208	1	60	1	290	5/8	28	TPKA0A0121LA10A	ACCU-3	208	1	60	28	11	7	12	1/2	1/4	93	TRUZA0121KA70NA

SPLIT SYSTEM DUCTLESS UNIT SCHEDULE NOTES
1. INSTALL INDOOR UNITS ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE MANUFACTURER'S STANDARD PROGRAMMABLE, WIRED THERMOSTAT.
3. MECHANICAL CONTRACTOR TO FURNISH DISCONNECT SWITCH, ELECTRICAL CONTRACTOR TO INSTALL AND WIRE TO UNIT.
4. PROVIDE STAND ALONE FACTORY INSTALLED DIRECT DIGITAL CONTROLS AS NECESSARY TO SATISFY THE SEQUENCE OF OPERATIONS.
5. PROVIDE VIBRATION ISOLATION/NEOPRENE PADS AT OUTDOOR UNIT.

CONTROLS GENERAL NOTE
1. ALL MECHANICAL EQUIPMENT IS TO UTILIZE STAND-ALONE OEM CONTROLS. CONTROLS ARE TO BE INTEGRAL WITH THE EQUIPMENT AND BE EITHER FACTORY OR FIELD INSTALLED, AS REQUIRED.
2. REFER TO SEQUENCE OF OPERATION, SPECIFICATION 230993 FOR MORE INFORMATION.

ROOFTOP AIR HANDLING UNIT SCHEDULE

TAG	SERVES	UNIT: SUPPLY				UNIT: RETURN			COOLING COIL - CHW: EAT		LAT	EWT (°F)	LWT (°F)	GPM	ROWS	TOTAL CAPACITY (MBH)	HEATING COIL - HW: ROWS	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	GPM	TOTAL CAPACITY (MBH)	FILTERS: FACE VELOCITY (FT/MIN)	EFFICIENCY	ELECTRICAL: V/PH/HZ	FLA	MCA	MAX FUSE (A)	BASIS OF DESIGN: WEIGHT (LBS)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	MANUFACTURER	MODEL
		TOTAL AIRFLOW	OUTSIDE AIRFLOW (CFM)	ESP/TSP	MOTOR POWER (HP)	TOTAL AIRFLOW	ESP/TSP	MOTOR POWER (HP)	EDB (°F)	EWB (°F)	LDB (°F)																							
H-1	CLASSRM / OFFICE	7590	1975	1.25/4.54	8.05	7590	1.25/1.97	8.05	80.2	66.09	56.74	45.0	59.0	35.83	6	232	1	53.28	74.85	180.0	140	8.88	177.59	526	MERV 14	460/3/60	25.22	27.28	35.00	3120	212	72	47.7	TRANE	CSAA014UB
F-2	AUDITORIUM	12300	4400	1.00/4.32	7.5	10193	1.00/3.64	5	80.36	68.09	61.36	45.0	59.0	46.46	4	300.82	2	49.4	93.18	180.0	140.0	29.19	584.04	376	MERV 14	460/3/60	40.57	43.32	50.00	7988	297	80	29.4	TRANE	CSAA025UB
B-2	CLASSRM / LABORTRY	6565	1825	3.99/6.60	8.05	6565	0.50/1.04	8.05	80.8	67.7	58.1	45.0	59.0	33.07	6	214.12	1	52.4	75.81	180	140	8.33	166.66	455	MERV 14	460/3/60	25.22	27.28	35.00	3103	212	72	45	TRANE	CSAA014UB
B-3	CLASSRM / LABORTRY	6170	1900	4.19/7.31	8.05	6170	0.50/1.10	8.05	89.0	74.3	62.9	45.0	59.0	40.12	8	259.79	1	52.4	76.10	180	140	16.74	158.12	463	MERV 14	460/3/60	25.22	27.28	35.00	2943	211	67	45	TRANE	CSAA012UB

NOTES:
1. BASIS OF DESIGN IS TRANE.
2. PROVIDED 4" PLEATED AIR FILTER, MERV 14 RATING, SEE SPEC 234100 FOR MORE INFO.
3. PROVIDE START-UP BY MANUFACTURER'S AUTHORIZED TECHNICIAN.
4. PROVIDED FACTORY INSTALLED 0-100% ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
5. UNIT SHALL BE SHIPPED IN SEPARATE SPLITS AND RIGGED VIA CRANES. ALL NECESSARY PERMITS FOR RIGGING REQUIRED.
6. MC TO PROVIDE FACTORY INSTALLED VFD WITH INTEGRAL MOTOR STARTERS FOR EACH FAN, EC TO FURNISH AND INSTALL FUSIBLE TYPE DISCONNECT SWITCHES IN THE FIELD.
7. TRANE TO PROVIDE BACNET INTEGRATION ASSISTANCE TO EXISTING TRACER SC+. TRANE TO ENSURE FULL DDC CONTROL OF ENERGY WHEELS (WHERE APPLICABLE) INCLUDING FROST PROTECTION VIA ENERGY WHEEL VFD SPEED CONTROL, 100% ECONOMIZER MODE VIA ENERGY WHEEL BYPASS DAMPERS.
8. DEMAND CONTROL VENTILATION REQUIRED FOR ALL UNITS.
9. CHILLED WATER SYSTEM COILS TO BE SIZED FOR 30% PROPYLENE GLYCOL.
10. TRANE TO PROVIDE HEATING AND COOLING CONTROL VALVE, SEE COIL PIPING DETAILS.
11. PROVIDE FACTORY INSTALLED FAN CONTROL PANEL FOR HIGH VOLTAGE AND LOW VOLTAGE POWER. SHALL INCLUDE INDIVVIDUAL MOTOR OVER-CURRENT PROTECTION WITH FUSED PANEL DISCONNECT.
12. OUTDOOR UNITS CONTAINING AIR-TO-AIR ENERGY RECOVERY DEVICES AND SHALL BE PROVIDED IN STACKED AIR TUNNEL CONFIGURATION. ALL OTHER OUTDOOR UNIT CONFIGURATIONS ARE PRREFERRED TO BE PROVIDED IN STACKED AIR TUNNEL CONFIGURATION IN ORDER TO ACHIEVE A REDUCED UNIT FOOTPRINT.
13. PROVIDE UNITS THAT DO NOT EXCEED THE WEIGHT OR DIMENSIONS AS SCHEDULED.
14. SOUND DATA SHALL BE PROVIDED USING AHRI 260 METHORDS. UNIT DISCHARGE, INLET , AND RADIATED SOUND POWER LEVELS IN Db SHALL BE PROVIDED FOR 63, 125, 250, 500, 1000, 2000, 4000 and 8000Hz.

MECHANICAL VENTILATION SCHEDULE

SYSTEM	ROOM	OCCUPANCY CLASSIFICATION	FLOOR AREA SF Az	OCCUPANT LOAD OCCUPANT/ 1,000 SF	# OF OCCUP-ANTS Pz	REQUIRED CFM/ OCCUPANT Rp	REQ. CFM/SF Ra	BREATHING ZONE OUTDOOR AIRFLOW Vbz=RpPz+ RaAz	ZONE DISTRIBUTION EFFECTIVENESS Ez	TOTAL ROOM OUTDOOR AIR REQUIRED Vot=Vbz/Ez	ACTUAL RM OUTSIDE AIR SUPPLY AIRFLOW CFM	REQ. EXHAUST AIRFLOW RATE CFM/SF	REQUIRED EXHAUST AIRFLOW CFM	ACTUAL EXHAUST AIRFLOW CFM
H1	108	CLASSROOM	1080	35	38	10	0.12	508	0.8	635	650	-	-	-
	109	CLASSROOM	1075	35	38	10	0.12	505	0.8	632	650	-	-	-
	110	CLASSROOM	845	35	30	10	0.12	397	0.8	496	500	-	-	-
	110A	OFFICE	430	5	2	5	0.06	37	0.8	46	50	-	-	-
	110B	CONFERENCE RM	300	50	15	5	0.06	93	0.8	116	125	-	-	-
B2	308	CLASSROOM	950	35	33	10	0.12	444	0.8	555	575	-	-	-
	310	CLASSROOM	895	35	31	10	0.12	417	0.8	522	525	-	-	-
	311	CLASSROOM	1020	35	36	10	0.12	482	0.8	603	625	-	-	-
	CORRIDOR (BETWEEN 311&309)	CORRIDOR	475	-	-	-	0.06	29	0.8	36	50	-	-	-
	CORRIDOR (BETWEEN 309/308&307/306)	CORRIDOR	640	-	-	-	0.06	38	0.8	48	50	-	-	-
B3	307	CLASSROOM	1040	35	36	10	0.12	485	0.8	606	625	-	-	-
	306	CLASSROOM	1055	35	37	10	0.12	497	0.8	621	625	-	-	-
	309	CLASSROOM	930	35	33	10	0.12	442	0.8	552	575	-	-	-
	CORRIDOR (BETWEEN 307& 305A)	CORRIDOR	775	-	-	-	0.06	47	0.8	58	75	-	-	-
F2	AUDITORIUM (1/3)	AUDITORIUM	4300	150	645	5	0.06	3483	0.8	4354	4400	-	-	-

NOTES:
1. VENTILATION CALCULATIONS COMPLY WITH THE 2020 NYS MECHANICAL CODE.
2. AIRFLOWS ARE EXPRESSED IN CFM UNLESS OTHERWISE NOTED.

F-2 RTU ENERGY RECOVERY WHEEL SCHEDULE

FAN	RECOVERED CAPACITY		MIXED AIR LAT			EFFECTIVENESS			
OUTSIDE AIRFLOW (CFM)	COOLING (MBH)	HEATING (MBH)	COOLING DB (°F)	HEATING DB (°F)	WHEELAPD (INH2O)	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	SENSIBLE HEATING
4400	156.87	306.35	76.7	64.6	0.70	63.40%	65.50%	64.30%	65.50%

UNIT HEATER SCHEDULE

TAG	SERVES	MODEL NUMBER	MANUFACTURER	POWER (KW)	DIMENSIONS: HEIGHT (INCH)	WIDTH (INCH)	DEPTH (INCH)	HEATING CAPACITY (BTU)	VOLTAGE (VOLTS)	PHASE	CURRENT (AMPS)	CONTROL VOLTAGE	TEMPERATURE RISE (°F)	AIR THROW (FEET)	AIRFLOW (CFM)	MOUNTING HEIGHT (FEET)	WEIGHT (LBS)
UH-1	SOFTBALL PRESSBOX	F2FUH05C03	MARKEL	5	17.75"	14.47"	6.5"	17100	208	1 OR 3	24.1 / 14.0	208	40	26	400	9	44
UH-2	BASEBALL PRESSBOX	F2FUH05C03	MARKEL	5	17.75"	14.47"	6.5"	17100	208	1 OR 3	24.1 / 14.0	208	40	26	400	9	44
UH-3	FIELD HOCKEY PRESSBOX	F2FUH05C03	MARKEL	5	17.75"	14.47"	6.5"	17100	208	1 OR 3	24.1 / 14.0	208	40	26	400	9	44

1 IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY, SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
8 SOUTH PEARL STREET, SUITE 202, SUFFERN, NY 10901
Structural & FME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-0-015-026
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

106 Hammond Rd.
Thiells, NY 10984

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL SCHEDULES

Drawing No.
M-002

BASEBALL FIELD

SOFTBALL FIELD

PRESSBOX

PRESSBOX

FIELD HOCKEY FIELD

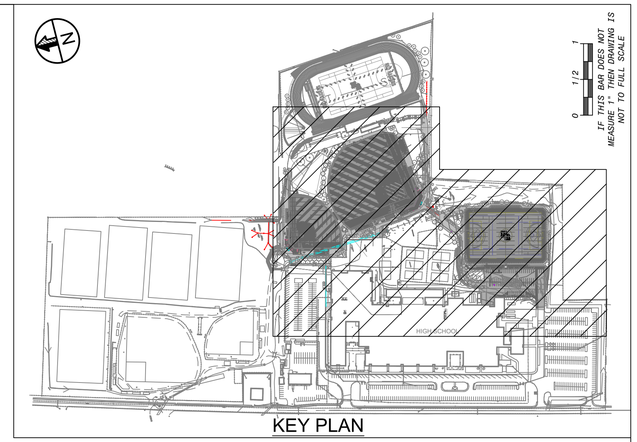
PRESSBOX

2 M-102

1 M-102

1 M-103

HIGH SCHOOL



KEY PLAN

1 NRHS MECHANICAL SITE PLAN
SCALE: 1" = 50'- 0"

No.	Date	Revisions
2	10/03/24	REV1 BIDDING DOCUMENTS
1	09/17/24	BIDDING DOCUMENTS

Drawn by	EVF
Checked by	ERF
Project No.	43045
Scale	AS NOTED
Date	10/03/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
677 BROADWAY ALBANY,
SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-02-01-06-4-016-006
PRESS BOX – SOFTBALL SBL# 50-02-01-06-7-009-001
PRESS BOX – BASEBALL SBL# 50-02-01-06-7-001-001

130 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9209
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL SITE PLAN

Drawing No.
M-101

GENERAL NOTES:

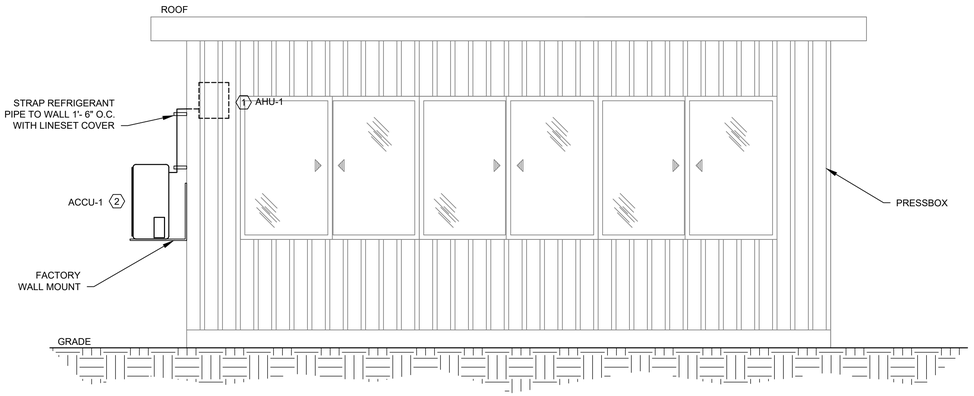
1. INSTALL BOTH CONDENSERS AND AIR HANDLING UNITS AS PER MANUFACTURERS DIRECTIONS

KEYED NOTES:

1. FURNISH AND INSTALL NEW INDOOR AC/HEAT PUMP UNIT, MOUNT 71" ABOVE FINISHED FLOOR. SEE SPLIT SYSTEM SCHEDULE ON DRAWING M-102.
2. FURNISH AND INSTALL OUTDOOR CONDENSER UNIT. MOUNT TO WALL, SEE SPLIT SYSTEM SCHEDULE ON DRAWING M-102.
3. FURNISH AND INSTALL NEW STAND-ALONE OEM THERMOSTAT CONTROLS, MOUNT 60" ABOVE FINISHED FLOOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

0 — 1/2 — 1

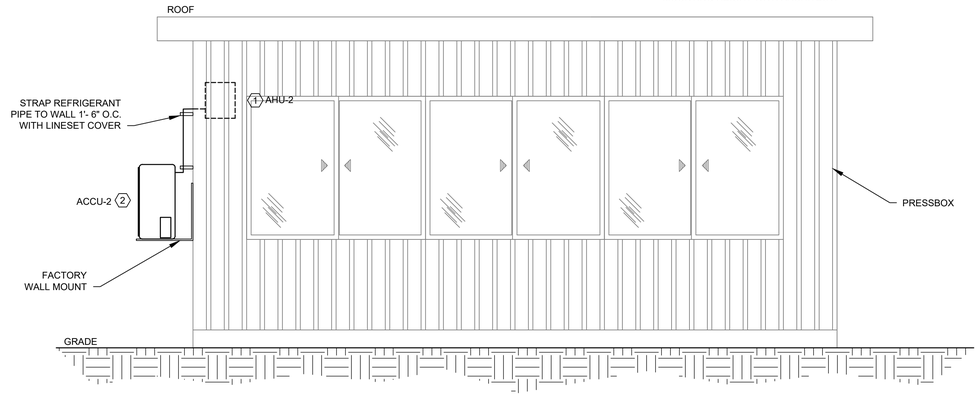
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE



ELEVATION

2 SOFTBALL PRESSBOX - ELEVATION

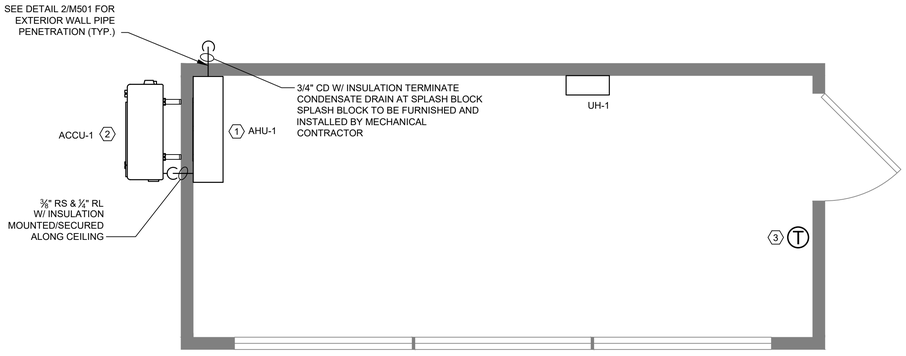
SCALE: 1/2" = 1'- 0"



ELEVATION

4 BASEBALL PRESSBOX - ELEVATION

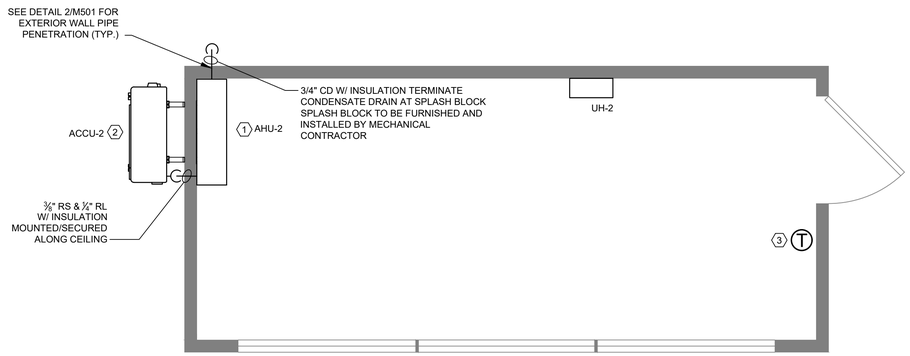
SCALE: 1/2" = 1'- 0"



PLAN

1 SOFTBALL PRESSBOX - MECHANICAL

SCALE: 1/2" = 1'- 0"



PLAN

3 BASEBALL PRESSBOX - MECHANICAL

SCALE: 1/2" = 1'- 0"

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by EVF
Checked by ERF
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
677 BROADWAY, ALBANY, NY 12207
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL - SBU 50-05-01-06-0-015-008
PRESS BOX – SOFTBALL - SBU# 50-05-01-06-7-000-001
PRESS BOX – BASEBALL - SBU# 50-05-01-06-7-001-001

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

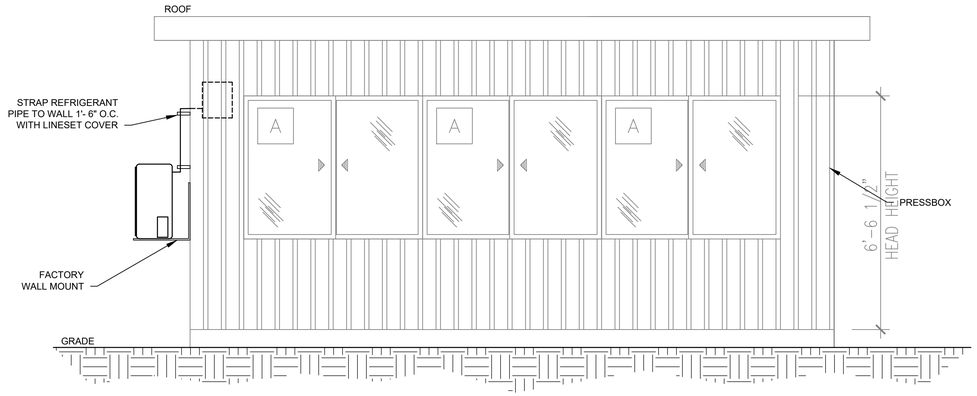
108 Ramapo Rd.
Thiells, NY 10984

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-768-9209
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

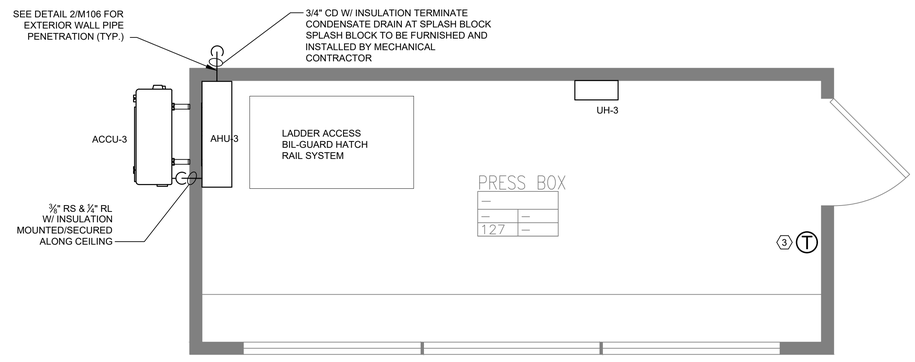
Drawing Title
MECHANICAL
PRESSBOX INSTALL - 1

Drawing No.
M-102



2 FIELD HOCKEY PRESSBOX - ELEVATION

SCALE: 1/2" = 1'- 0"



1 FIELD HOCKEY PRESSBOX - MECHANICAL

SCALE: 1/2" = 1'- 0"

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

Landscape Architect & Civil Engineer:
THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING
40 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Structural & PME Engineer:
GREENMAN PEDERSEN, INC
A BOUTIN JONES INC. COMPANY
SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBM# 50-09-01-05-0-015-009
PRESS BOX – SOFTBALL: SBM# 50-04-01-08-7-000-001
PRESS BOX – BASEBALL: SBM# 50-04-01-08-7-001-001

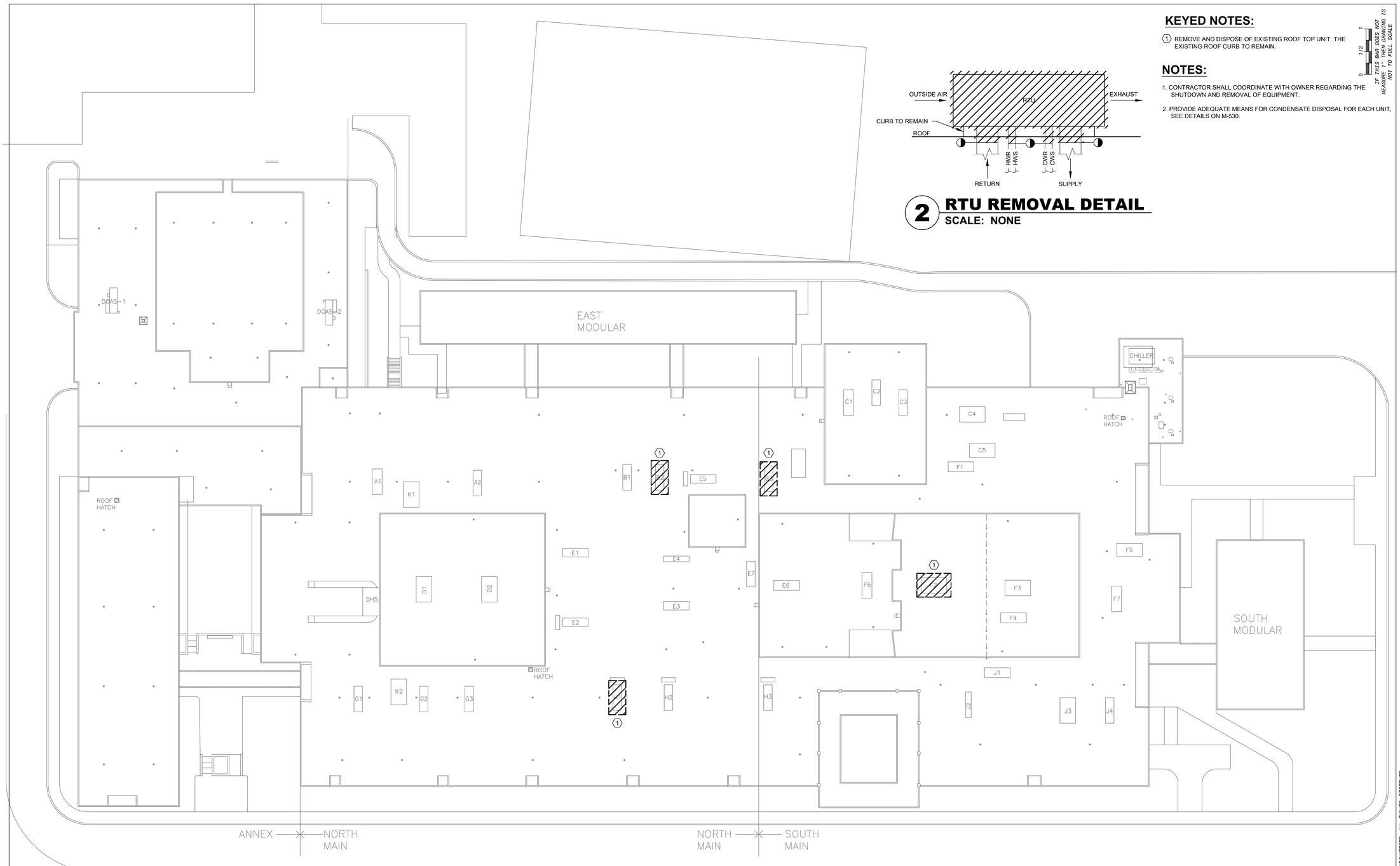
105 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

Drawing Title
MECHANICAL
PRESSBOX INSTALL - 2

Drawing No.
M-103



1 NRHS MECHANICAL ROOF PLAN - REMOVAL

SCALE: 1/32" = 1'- 0"

2 RTU REMOVAL DETAIL

SCALE: NONE

KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING ROOF TOP UNIT. THE EXISTING ROOF CURB TO REMAIN.

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING THE SHUTDOWN AND REMOVAL OF EQUIPMENT.
2. PROVIDE ADEQUATE MEANS FOR CONDENSATE DISPOSAL FOR EACH UNIT, SEE DETAILS ON M-530.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, PLLC
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
4 BOSTON POST ROAD
SUITE 202, SUFFERN, NY 10901

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-08-0-016-000
PRESS BOX – SOFTBALL SBL# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-05-7-001-001

190 Hammond Rd.
Thiells, NY 10984

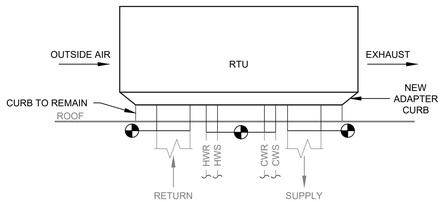
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL ROOF REMOVAL

Drawing No.
M-104



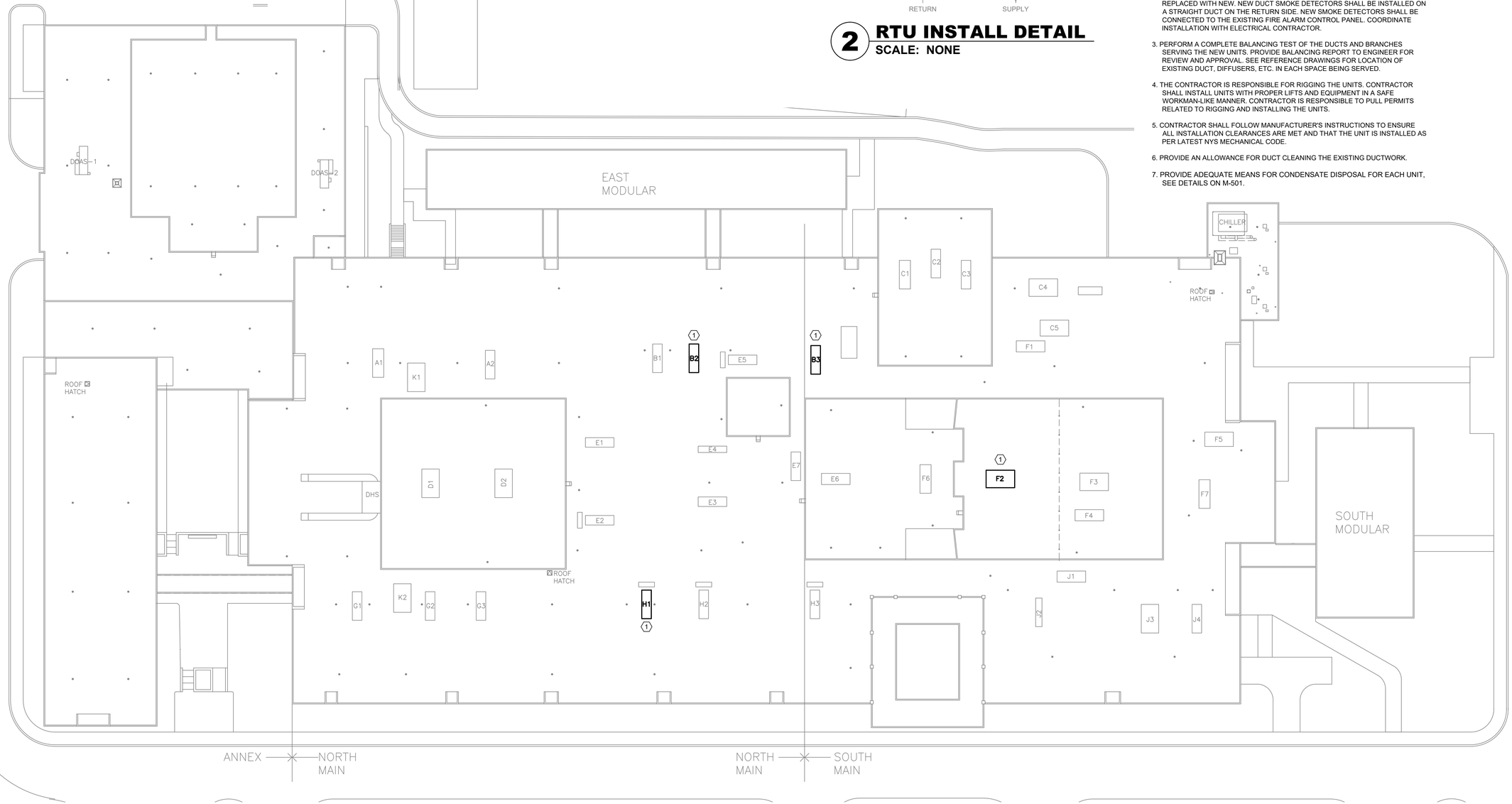
2 RTU INSTALL DETAIL
SCALE: NONE

KEYED NOTES:

1. INSTALL AND CONNECT NEW ROOF TOP UNIT TO EXISTING DUCTWORK AND PIPING. THERE SHALL BE NO NEW ROOF PENETRATIONS. PROVIDE AN ADAPTER ROOF CURB & FACTORY ASSEMBLED PIPE CHASE CURB AND CABINET FOR UNIT, SEE AIR HANDLING UNITS SCHEDULE ON DRAWING M-002 FOR REQUIRED AIRFLOW RATINGS.

NOTES:

1. FOR ADDITIONAL INFORMATION AND SPECIFICS REGARDING AIR HANDLING UNIT INSTALLATION, SEE THE AIR HANDLING UNIT SPECIFICATION AND MANUFACTURER'S INSTALLATION MANUAL. PROVIDE EXTRA PARTS AS DEPICTED IN THE SPECIFICATION.
2. INSTALL DUCT SMOKE DETECTORS FOR THE NEW AIR HANDLING UNITS TO COMPLY TO CODE. EXISTING DUCT SMOKE DETECTORS ON SUPPLY SIDE TO BE REPLACED WITH NEW. NEW DUCT SMOKE DETECTORS SHALL BE INSTALLED ON A STRAIGHT DUCT ON THE RETURN SIDE. NEW SMOKE DETECTORS SHALL BE CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
3. PERFORM A COMPLETE BALANCING TEST OF THE DUCTS AND BRANCHES SERVING THE NEW UNITS. PROVIDE BALANCING REPORT TO ENGINEER FOR REVIEW AND APPROVAL. SEE REFERENCE DRAWINGS FOR LOCATION OF EXISTING DUCT, DIFFUSERS, ETC. IN EACH SPACE BEING SERVED.
4. THE CONTRACTOR IS RESPONSIBLE FOR RIGGING THE UNITS. CONTRACTOR SHALL INSTALL UNITS WITH PROPER LIFTS AND EQUIPMENT IN A SAFE WORKMAN-LIKE MANNER. CONTRACTOR IS RESPONSIBLE TO PULL PERMITS RELATED TO RIGGING AND INSTALLING THE UNITS.
5. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS TO ENSURE ALL INSTALLATION CLEARANCES ARE MET AND THAT THE UNIT IS INSTALLED AS PER LATEST NYS MECHANICAL CODE.
6. PROVIDE AN ALLOWANCE FOR DUCT CLEANING THE EXISTING DUCTWORK.
7. PROVIDE ADEQUATE MEANS FOR CONDENSATE DISPOSAL FOR EACH UNIT, SEE DETAILS ON M-501.



1 NRHS MECHANICAL ROOF PLAN - REMOVAL
SCALE: 1/32" = 1'- 0"

1/2" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	MC
Checked by	WM
Project No.	43045
Scale	AS NOTED
Date	09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
18 COMPUTER DRIVE WEST,
SUITE 202, ALBANY, NY 12205

Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-02-01-08-0-016-000
PRESS BOX – SOFTBALL SBL# 50-02-01-05-7-000-001
PRESS BOX – BASEBALL SBL# 50-02-01-05-7-001-001

100 Hammond Rd.
Thiells, NY 10984

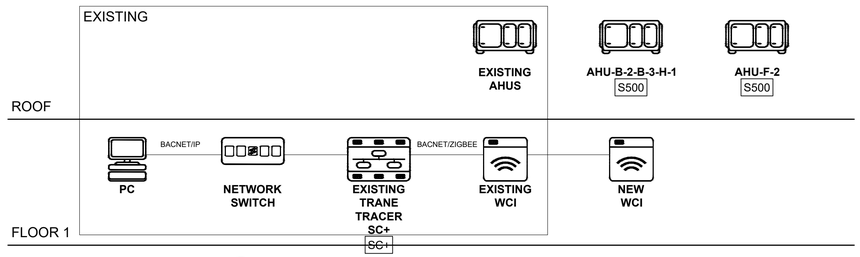
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
149 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

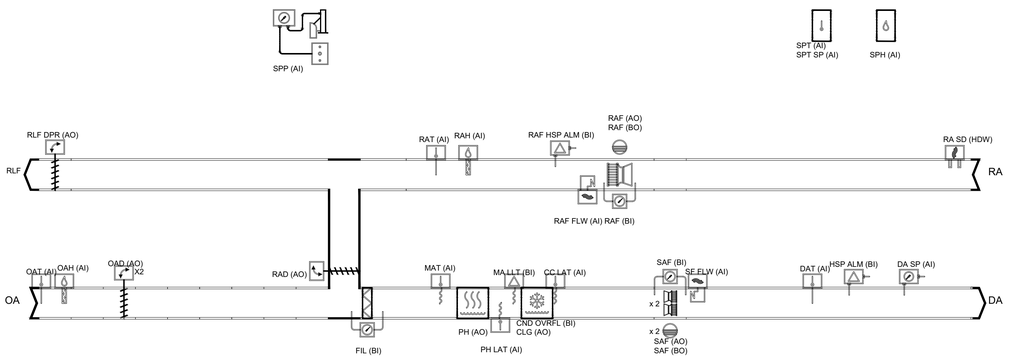
© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL ROOF INSTALLATION

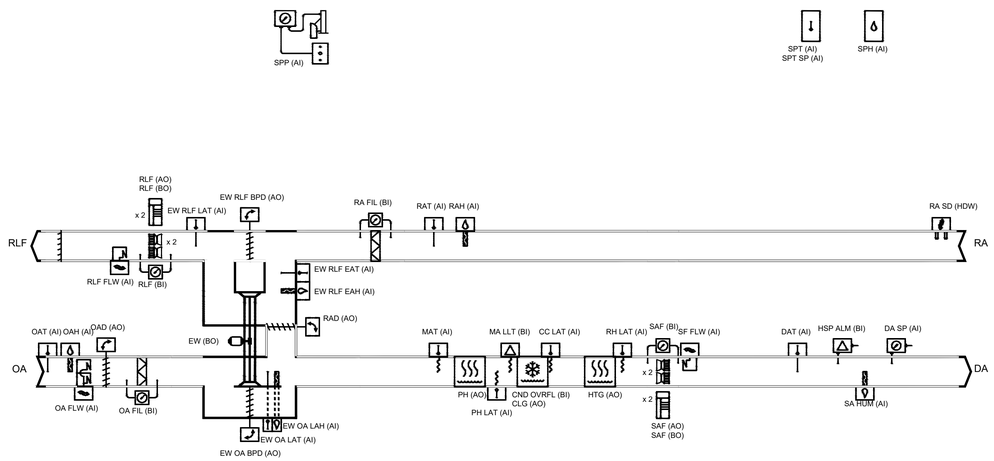
Drawing No.
M-105



1 CONTROL DIAGRAM
SCALE: NONE



2 FLOW DIAGRAM FOR RTU B-2, B-3 AND H-2
SCALE: NONE



3 FLOW DIAGRAM FOR RTU F-2
SCALE: NONE

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
CONTROL DIAGRAMS - 1

Drawing No.
M-401

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-8500
www.shilale.com

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SPED# 50-02-01-06-0-016-026
PRESS BOX - SCPTBALL: SED# 50-02-01-05-7-000-001
PRESS BOX - BKSBALL: SED# 50-02-01-06-7-001-001

190 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

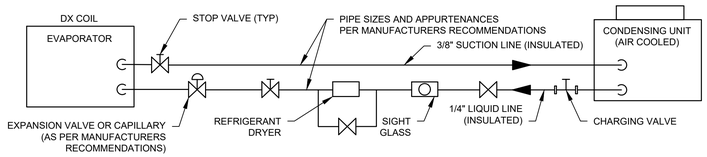
THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866

GREENMAN PEDERSEN INC
4 BOSTON POST ROAD WEST,
SUITE 202, SUFFERN, NY 10901

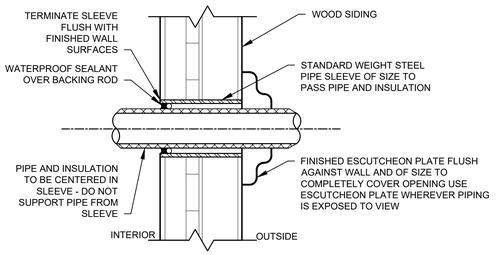
Landscape Architect & Civil Engineer:

Structural & PME Engineer:

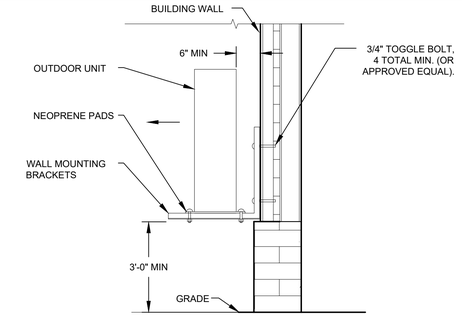
1/2" 0 1" IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE



1 DX COIL PIPING DIAGRAM
SCALE: NONE

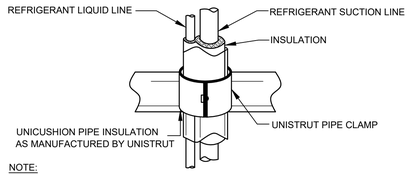


2 EXTERIOR WALL PIPE PENETRATION
SCALE: NONE



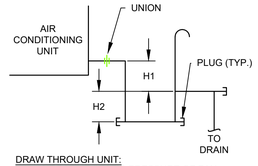
NOTES:
1. MOUNT OUTDOOR UNIT ON WALL MOUNTING BRACKETS WITH NEOPRENE VIBRATION ISOLATOR PADS AS PER UNIT MANUFACTURER'S INSTRUCTIONS.

3 WALL MOUNTED CONDENSER DETAIL
SCALE: NONE



NOTE:
1. LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2. LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3. SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.
4. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.

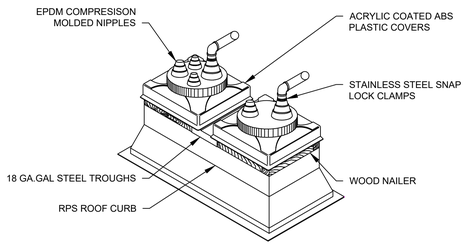
4 REFRIGERANT PIPING SUPPORT
SCALE: NONE



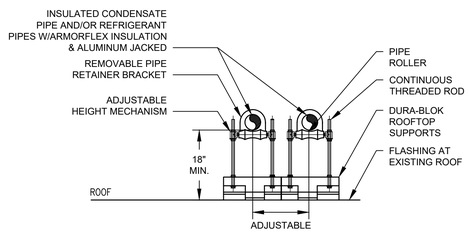
DRAW THROUGH UNIT:
H1= NEGATIVE STATIC PRESSURE OF FAN + 1" MIN.
H2= H1

5 CONDENSATE DRAIN TRAP SIZING
SCALE: NONE

NOTE:
1. MC RESPONSIBLE TO VERIFY AND COMPLY WITH MANUFACTURERS INSTALLATION INSTRUCTIONS FOR PROPER TRAP SIZING.

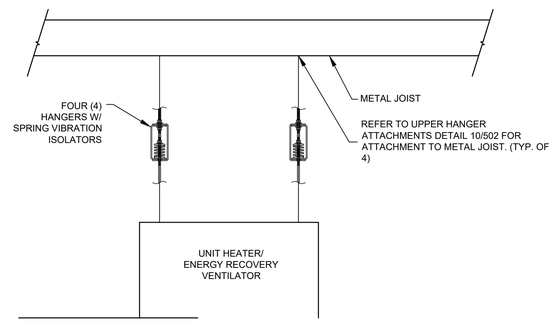


6 PIPE PORTAL AT ROOF PENETRATION
SCALE: NONE



NOTE:
FURNISH AND INSTALL PIPE MOUNTED PEDESTALS FOR MULTIPLE PIPE SUPPORTS MANUFACTURED BY COOPER B-LINE, (DURA-BLOK ROOFTOP SUPPORTS) DB SERIES OR APPROVED EQUAL.

7 ROOF PIPE SUPPORT
SCALE: NONE



8 UH/ERV INSTALLATION DETAIL
SCALE: NONE

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

1/2" 0 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by MC
Checked by WM
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

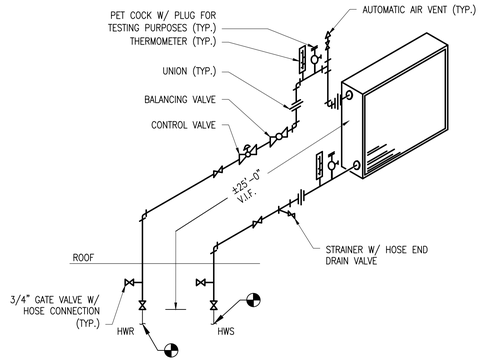
GREENMAN PEDERSEN INC
4 INTERNATIONAL DRIVE
SUITE 202, RIPPOWAM, NY 10901
Structural & MEP Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES
HIGH SCHOOL SBL# 50-02-01-06-4-016-026
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-004-001
PRESS BOX - BASEBALL SBL# 50-02-01-06-7-001-001
150 Hammond Rd.
Thiells, NY 10984
TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9209
www.shilale.com

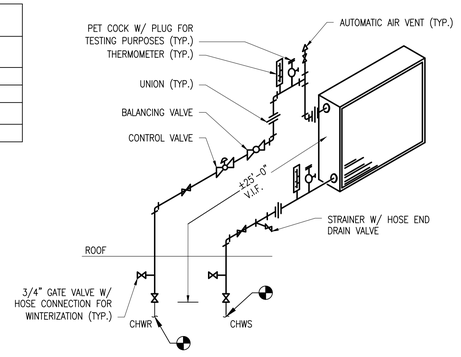
Drawing Title
MECHANICAL DETAILS - 1

Drawing No.
M-501

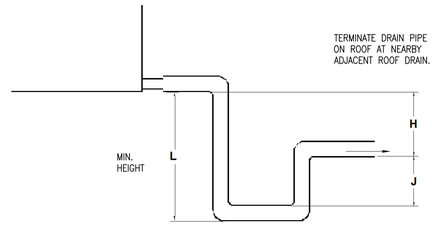


1 RTU HOT WATER COIL
SCALE: NONE

PIPE SCHEDULE		
UNIT	HWS/R	CHWS/R
H1	1"	2"
F2	2"	2-1/2"
B2	1"	2"
B3	1"	2"



2 RTU CHILLED WATER COIL
SCALE: NONE



Drain pan trapping for section under negative pressure

L = H + J + pipe diameter where:
H = 1 inch for each inch of negative pressure (loaded filters) plus 1 inch
J = ½ **H**

Drain pan trapping for section under positive pressure

L = H + **J** + pipe diameter where:
H = 1/2 inch (minimum)
J = ½ inch plus the unit positive static pressure at coil discharge (loaded filters)

3 DRIP PAN DETAIL
SCALE: NONE

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by	MC
Checked by	WM
Project No.	43045
Scale	AS NOTED
Date	09/17/24

Landscape Architect & Civil Engineer: **THE LA GROUP** LANDSCAPE ARCHITECTURE & ENGINEERING 40 LONG ALLEY, SARATOGA SPRINGS, NY 12866

Structural & PME Engineer: **GREENMAN PEDERSEN, INC** 2 EXECUTIVE BOULEVARD SUITE 202, SUFFERN, NY 10901

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-05-01-05-0-015-020
PRESS BOX – SOFTBALL SBL# 50-05-01-05-7-000-001
PRESS BOX – BASEBALL SBL# 50-05-01-05-7-001-001

106 Hammond Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-708-9200
www.shilale.com

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

Drawing Title
MECHANICAL DETAILS - 2

Drawing No.
M-502

KEYED NOTES:

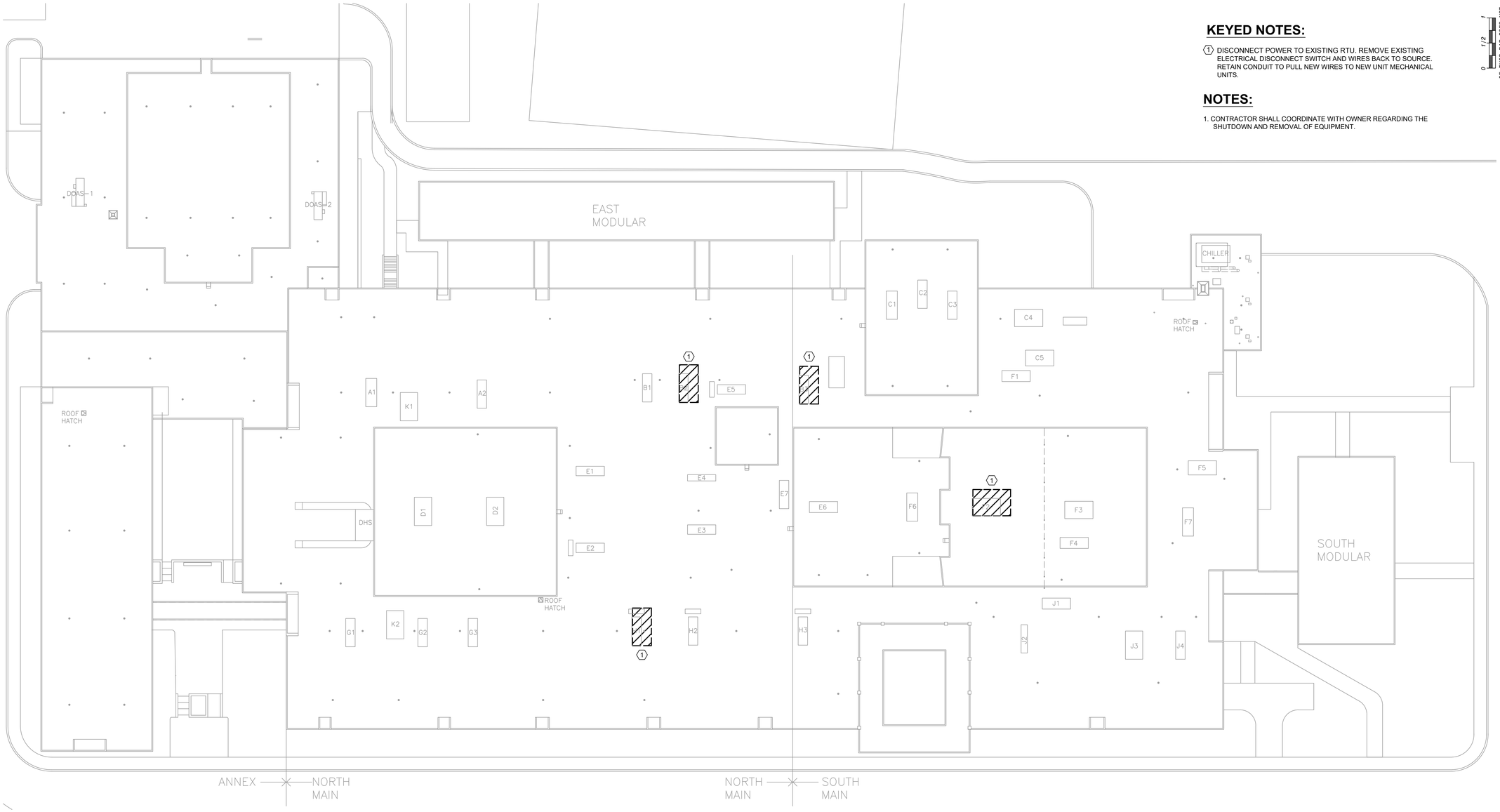
1. DISCONNECT POWER TO EXISTING RTU. REMOVE EXISTING ELECTRICAL DISCONNECT SWITCH AND WIRES BACK TO SOURCE. RETAIN CONDUIT TO PULL NEW WIRES TO NEW UNIT MECHANICAL UNITS.

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING THE SHUTDOWN AND REMOVAL OF EQUIPMENT.

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

0 1/2 1



1 NRHS ELECTRICAL ROOF REMOVAL PLAN

SCALE: 1/32" = 1'- 0"

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & PLANNING, P.C.
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN, INC
GPI NORTHEAST REGIONAL OFFICE
SUITE 202, RIFFENBURG, NY 10901
Structural & FME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS - PHASE 2 & HVAC UPGRADES

HIGH SCHOOL SBL# 50-05-01-05-0-015-008
PRESS BOX - SOFTBALL SBL# 50-02-01-06-7-009-001
PRESS BOX - BASEBALL SBL# 50-05-01-06-7-001-001

108 Hammond Rd.
Pomona, NY 10954

TOWN OF ORANGETOWN
COUNTY OF ROCKLAND

© COPYRIGHT: MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-768-9209
www.shilale.com

Drawing Title
NRHS ELECTRICAL ROOF REMOVAL PLAN

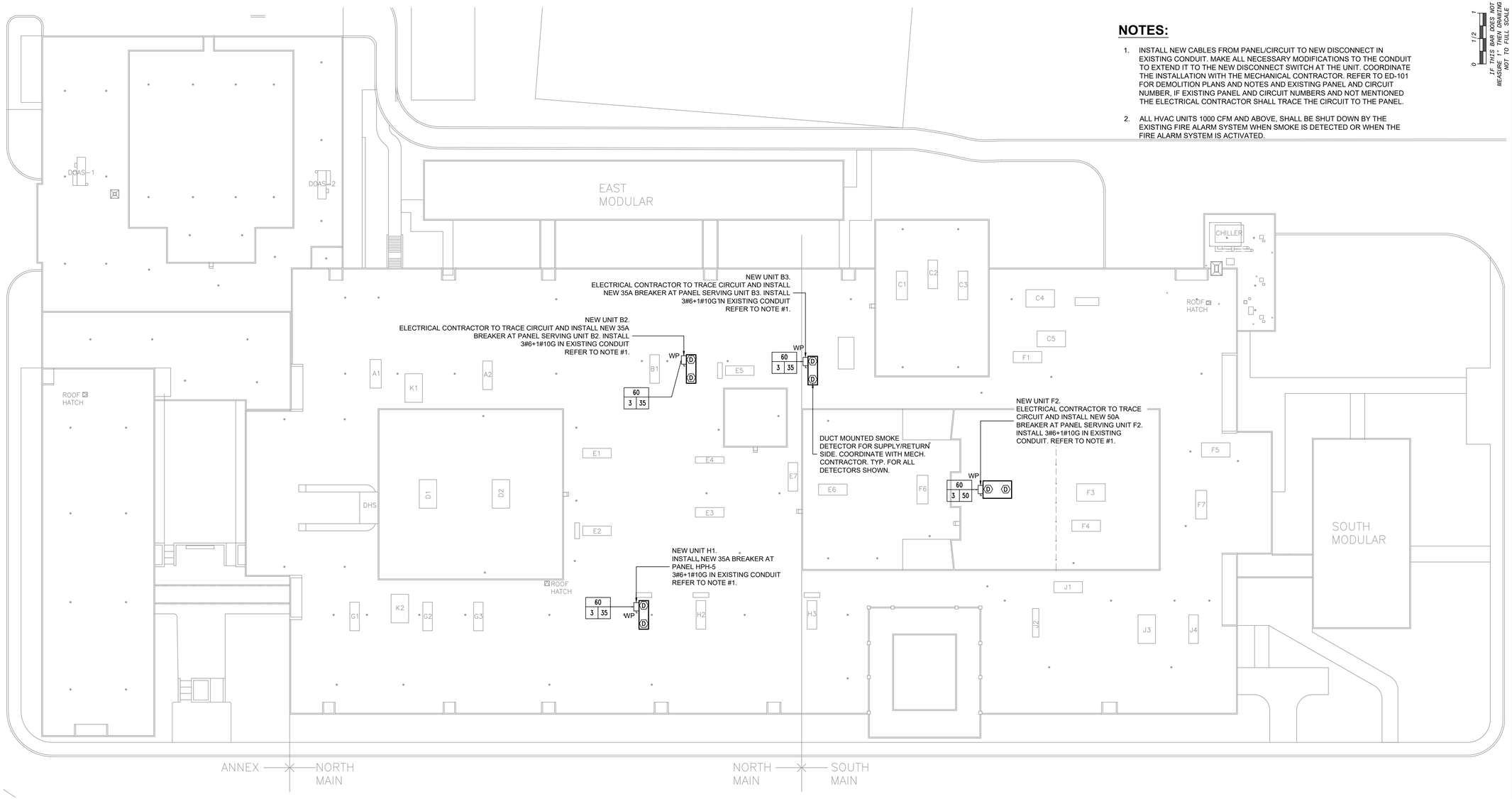
Drawing No.
ED-101

NOTES:

1. INSTALL NEW CABLES FROM PANEL/CIRCUIT TO NEW DISCONNECT IN EXISTING CONDUIT. MAKE ALL NECESSARY MODIFICATIONS TO THE CONDUIT TO EXTEND IT TO THE NEW DISCONNECT SWITCH AT THE UNIT. COORDINATE THE INSTALLATION WITH THE MECHANICAL CONTRACTOR. REFER TO ED-101 FOR DEMOLITION PLANS AND NOTES AND EXISTING PANEL AND CIRCUIT NUMBER, IF EXISTING PANEL AND CIRCUIT NUMBERS AND NOT MENTIONED THE ELECTRICAL CONTRACTOR SHALL TRACE THE CIRCUIT TO THE PANEL.

2. ALL HVAC UNITS 1000 CFM AND ABOVE, SHALL BE SHUT DOWN BY THE EXISTING FIRE ALARM SYSTEM WHEN SMOKE IS DETECTED OR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE



1 NRHS ELECTRICAL ROOF INSTALLATION PLAN
SCALE: 1/32" = 1'- 0"

No.	Date	Revisions
1	09/17/24	BIDDING DOCUMENTS

Drawn by DK
Checked by SH
Project No. 43045
Scale AS NOTED
Date 09/17/24

THE LA GROUP
LANDSCAPE ARCHITECTURE & ENGINEERING, PLLC
49 LONG ALLEY,
SARATOGA SPRINGS, NY 12866
Landscape Architect & Civil Engineer:

GREENMAN PEDERSEN INC
ENGINEERS AND CONSULTANTS
SUITE 202, SUFFERN, NY 10901
Structural & PME Engineer:

NORTH ROCKLAND HIGH SCHOOL FIELDS – PHASE 2 & HVAC UPGRADES

HIGH SCHOOL: SBL# 50-05-01-05-0-015-008
PRESS BOX – SOFTBALL: SBL# 50-02-01-06-7-000-001
PRESS BOX – BASEBALL: SBL# 50-02-01-06-7-001-001
106 Ramapoo Rd.
Thiells, NY 10984

TOWN OF HAVERSTRAW
COUNTY OF ROCKLAND

MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10956 Tel 845-768-9209
www.shilale.com

Drawing Title
NRHS ELECTRICAL ROOF INSTALLATION PLAN

Drawing No.
E-101

© COPYRIGHT, MICHAEL SHILALE ARCHITECTS, ALL RIGHTS RESERVED.