



**ADDENDUM NO. 1**

**FOR THE**

**NEWBURGH RECREATION CENTER PROJECT**

**TOWN OF NEWBURGH  
ORANGE COUNTY, NEW YORK**

**CLIENT:**

**Town of Newburgh  
1496 Route 300  
Newburgh, NY 12550**

**PREPARED BY:**

**MHE Engineering, D.P.C.  
111 Wheatfield Drive, Suite 1  
Milford, PA 18337**

**NOTE: ANY UNAUTHORIZED ALTERATION OR  
ADDITION TO THIS DOCUMENT IS A  
VIOLATION OF SECTION 7209(2) OF THE  
NEW YORK STATE EDUCATION LAW.**

**DATE: March 6, 2024**

**JOB#: 21-135**

**THIS ADDENDUM CONSISTS OF (2) PAGES, (2) ATTACHMENTS & (17) PLAN SHEETS**

**NEW YORK OFFICE**

33 Airport Center Drive, Suite 202, New Windsor, NY 12553  
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

**PENNSYLVANIA OFFICE**

111 Wheatfield Drive, Suite 1, Milford, PA 18337  
570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com

**Prospective Bidders are advised of the following revisions, additions and/or deletions to the contract documents.**

**SPECIFICATIONS:**

1. Add attached Specification 096568 Synthetic Athletic Flooring. This specification is for the basketball court area only.
2. Remove Specification 055000 Metal Fabrications from the Architectural and Structural folders and replace with the attached Specification 055000 Metal Fabrications in its entirety.

**CONSTRUCTION BID PLANS:**

1. Add the attached drawing sheets in their entirety:

**Structural Plan Sheets:**

Plan Sheet S-202  
Plan Sheet S-203

2. Replace the attached drawing sheets in their entirety:

**General Plan Sheets:**

Plan Sheet G-100

**Structural Plan Sheets:**

Plan Sheet S-001  
Plan Sheet S-102  
Plan Sheet S-105  
Plan Sheet S-501

**Civil Plan Sheets:**

Plan Sheet C-102  
Plan Sheet C-103  
Plan Sheet C-104  
Plan Sheet C-105  
Plan Sheet C-106  
Plan Sheet C-106A

**Electrical Plan Sheets**

Plan Sheet E-400  
Plan Sheet E-501  
Plan Sheet E-604  
Plan Sheet E-702

**ADDITIONAL CLARIFICATIONS:**

1. Alternate #2, Stone Veneer Deduct: The deduct is for the Stone Veneer on the building proper. The stone veneer on the columns at each entryway are not part of the deduct and will be included in the project and in the base price.
2. Alternate #3 Deduct: Remove the hardwood flooring system (11,405 SF) and the wood sleeper system and plywood subfloor (14,995 SF) in the gymnasium portion of the building including all associated details, required floor transitions between various gym athletic floor systems. The top of concrete floor slab at the gymnasium will be = +99'-11 1/2". There will be no wood sleepers in the project if Alt #3 Deduct is selected. Alt #3 Deduct will remove all hardwood, resulting in synthetic floor throughout the gym space.

**ALL BIDDERS MUST SUBMIT ACKNOWLEDGEMENT OF RECEIPT OF ALL ADDENDUMS WITH BID**

**ACKNOWLEDGEMENT OF RECEIPT OF ALL ADDENDUMS LISTED BELOW:**

**ADDENDUM 1 – 06 March 2024**

---

**SUBMIT THIS SHEET WITH YOUR BID**

**(End of Addendum No. 1)**

MHE Engineering, D.P.C.  
111 Wheatfield Drive, Suite 1  
Milford, PA 18337

## SECTION 096568 - SYNTHETIC ATHLETIC FLOORING

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. Scope

1. The complete installation of synthetic sports surfacing system including striping of all court lines and painting of logos, etc. as required.

##### B. Related work specified under other sections.

1. SECTION 033000 CAST-IN-PLACE CONCRETE. Relative to vapor barriers, membrane water proofing, floor flatness tolerances, and use of concrete curing, hardening or sealing agents where finish floor systems are installed.

#### 1.2 REFERENCES

##### A. Physical Properties compiled using the following test standards:

1. ASTM 2772
2. ASTM C501
3. ASTM D1894
4. ASTM F 2170
5. ASTM 1745-97
6. ASTM F 3191
7. EN 12235
8. EN 14904
9. EN 14808
10. DIN 53505
11. DIN 18032-2

#### 1.3 SUBMITTALS

- A. Manufacturer's flooring system specifications.
- B. 12" x 12" sample of the specified system
- C. Manufacturer's Synthetic Care & Maintenance Guide.
- D. Manufacturer's Installation instructions.
- E. Copy of manufacturer's limited warranty.
- F. Drawings indicating floor patterns, layout, colors, widths, dimensions of game lines and markers, and locations of floor inserts for athletic equipment & electrical receptacles.

#### 1.4 QUALITY ASSURANCE

A. MATERIAL SUPPLIER: Shall be Manufacturer.

B. INSTALLER:

1. The complete installation of the flooring system, as described in these specifications, shall be carried out by an experienced installer with minimum 5 years experience working on project with the specified system, and the work shall be performed in accordance with current Manufacturer installation instructions.
2. Installer shall warranty the installation for a period of one year from the date of substantial completion.

#### 1.5 DELIVERY, STORAGE AND HANDLING

A. Materials must be delivered in the Manufacturer's original, unopened and undamaged packaging with identification labels intact.

B. Store the material inside protected from exposure to harmful weather conditions on a clean, dry, flat surface protected from possible damage. Do not stack rolls of material.

C. Storage conditions shall be 60°F to 85°F. Ambient RH shall not exceed 70%.

#### 1.6 SITE CONDITIONS

A. Installation of synthetic materials shall not commence until all other finishes and overhead mechanical trades have completed their work in the synthetic floor areas.

B. Permanent heat, light and ventilation shall be installed and operating during and after installation. Subfloors shall be clean, dry, and free from dirt, dust, oil, grease, paint, old adhesive residue, or other foreign materials.

C. Moderate room temperature of 65° F to 80° F, ambient RH shall be 70% or less which must be maintained for one week prior to, during and 72 hours after installation.

D. Flooring installation shall not begin until moisture vapor emissions, pH level, concrete porosity, and levelness of concrete subfloors have been met. The installation area shall be closed to all traffic and activity for a period to be set by the flooring contractor.

E. Environmental Limitations

1. Comply with requirements of Manufacturer.
2. Adhere to all SDS requirements for materials employed in the work. Protect all persons from exposure to hazardous materials at all times.

- F. After the synthetic floors are installed and the game lines are painted, the area is to be closed to allow curing time for the system. No other trades or personnel are allowed on the floor until the owner has accepted it.

## 1.7 COORDINATION

- A. Coordinate layout and installation of flooring with floor inserts for gym equipment and electrical receptacles.

## 1.8 WARRANTY

- A. Manufacturer shall provide a limited warranty of one (1) year on the materials it has supplied. (A copy of the full warranty, with its Terms and Exclusions, is available from the authorized Manufacturer Dealer.) This warranty is expressly limited to the flooring materials (goods) supplied by manufacturer. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Manufacturer flooring systems.
- B. Manufacturer shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement or, at their election, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Manufacturer in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

## 1.9 CLOSE OUT SUBMITTALS

- A. Manufacturer's Care and Maintenance Guide and instructions.
- B. Manufacturer's warranty information.

## PART 2 – PRODUCTS

### 2.1 MATERIALS

- A. Basis of Design - All polyurethane components shall be non-hazardous, and shall not contain ANY lead, mercury, heavy metals, PCB, or formaldehyde, and shall be ElastiPlus synthetic

athletic floor system as manufactured by Connor Sports, A Titan Commercial Sports and Gym Flooring Company.

1. Physical Properties

i. Standard for Indoor Sports System	P-1	ASTM 2772
ii. Indoor Air Quality (IAQ)	Floorscore	California 01350
iii. Total Volatile Organic Compounds	Compliant	CDPH/EHLB v1.2-2017
iv. Shock Absorption 9mm basemat	27%	EN 14808
v. Coefficient of Friction	1.45 +	ASTM D1894
vi. Ball rebound	>90	EN 12235
vii. Classification	P-1	EN 14904
viii. Gloss	5-15%	
ix. System Type	Point Elastic	EN 14904
x. Tabor Abrasion	.06+ .01	ASTM C501
xi. Resistance to rolling loads	1500 N	EN 1569
xii. Tensile strength	1000-1400 psi	ASTM D412
xiii. Elongation at break	100-140%	ASTM D412
xiv. Tear strength	65-85 pli	ASTM D624
xv. Surface Hardness	70-80 Shore A	DIN 53505
xvi. Light (color) fastness	Excellent	DIN 54004

B. Manufacturers: Subject to compliance with requirements, available manufacturers offering projects that may be incorporated into the Work included, but are not limited to the following:

1. Robbins Sports Surfaces
2. Tarkett Commercial

C. Adhesive – Two-component polyurethane, solvent free.

D. Base Layer – Specially formulated prefabricated resilient basemat made of recycled rubber and foam granules bound with MDI polyurethane. Basemat layer shall be of 2 consistent thickness.

1. Basemat density: – 47.5 +5 lbs/ft<sup>3</sup>
2. Basemat thickness:
  - a. +/- 9mm

E. Scratch Coat (mat sealer) – Two-component, thixotropic polyurethane compound.

F. Wear Coat – To be two-component, pigmented, seamless self-leveling polyurethane. Average wear layer thickness – 2mm

G. Top Coat (matte finish) – To be three-component water-based urethane Top Coat. Colors to be selected by engineer from full range of colors.

H. Game Line Paint – Three-component water-based urethane. Colors to be selected by engineer from full range of colors.

I. Base – Vinyl wall base 4” high. Select from standard colors.

PART 3 – EXECUTION (This is not a complete guide to installation and should not be used as such)

3.1 INSPECTION

- A. Inspect the concrete slab for proper flatness, levelness and any other conditions critical to proper installation. Report any discrepancies to the engineer prior to installation of any flooring.
- B. Concrete slab shall be broom cleaned prior to installation.

3.2 EXAMINATION AND PREPARATION

- A. Review moisture vapor emission and pH test results and comply with the following:
  - 1. Moisture vapor emissions must not exceed 80% RH as per ASTM F2170.
  - 2. pH level should be in the range of 7 to 8.5 per ASTM F710.
  - 3. Slab porosity must be tested per ASTM F 3191
- B. Installation shall not be carried out unless the concrete flatness, moisture vapor emissions, Concrete Porosity and pH requirements as specified are satisfied.
  - 1. Concrete shall be smooth and level, NOT BURNISHED

3.3 INSTALLATION

- A. Prepare the concrete to receive the flooring material in accordance with installation instructions.
- B. Basemat
  - 1. Unroll basemat, fold, and adhere to substrate or unroll directly into spread adhesive. Do not cut the base mat to final dimensions until it is laid into the adhesive.
  - 2. Thoroughly mix the two-component polyurethane adhesive per Manufacturer's instructions and apply it directly to the concrete subfloor with a V-notched 3/32" X 3/32" X 3/32" trowel.
  - 3. Install the base mat into the freshly applied adhesive. Do not allow a compression fit at any seam. Roll the base mat with a 100 lb segmented roller and repeat the rolling process on the entire mat 45 minutes after installation. Allow the adhesive to cure before proceeding to the next step.
- C. Scratch Coat
  - 1. Thoroughly mix the two-component Scratch Coat per Manufacturer's instructions.
  - 2. Apply two layers of Scratch Coat to the base mat with a flat trowel. Allow each layer to cure a minimum of 8 hours before proceeding to the next application. Inspect for, and fill all gaps by applying additional material as needed. Sand down any ridges in the cured Scratch Coat with 100 grit sand paper.



D. Wear Coat

1. Thoroughly mix the two-component Wear Coat per Manufacturer's instructions.
2. Apply the mixed wear coat material using a notched squeegee in one layer. The Wear Coat must be applied wet-into-wet to create a seamless surface. Allow the Wear Coat to cure 12 hours before proceeding to the next application. Sand any imperfections in the finished surface with 100 grit sandpaper.

E. Top Coat

1. Thoroughly mix the three-component water-based urethane Top Coat per Manufacturer's instructions.
  - a. Apply the mixed material with a paint roller at 250 to 300 square feet per gallon. Allow the Top Coat to cure a minimum of 18 hours before applying the game lines.

F. Game Lines

1. Use only high-quality masking tape approved by the Manufacturer.
2. Thoroughly mix the three-component game line paint per Manufacturer's instructions.
3. Provide game lines as indicated on drawings.

- G. Remove all excess and waste materials from the work area. Dispose of empty containers in accordance with federal and local statutes.

END OF SECTION 096566

## SECTION 055000 - METAL FABRICATIONS

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. Section Includes:

1. Miscellaneous steel framing and supports.
2. Shelf angles.
3. Metal ladders.
4. Metal Ships ladders.
5. Metal floor plate and supports.
6. Structural-steel door frames.
7. Miscellaneous steel trim.
8. Metal bollards.
9. Loose bearing and leveling plates.

##### B. Products furnished, but not installed, under this Section include the following:

1. Loose steel lintels.
2. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.
3. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.

#### 1.2 ACTION SUBMITTALS

##### A. Product Data: For the following:

1. Paint products.
2. Grout.

##### B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

##### C. Delegated-Design Submittal: For ladders, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

##### A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design ladders and stair cases.

- B. Structural Performance of Aluminum Ladders: Aluminum ladders, including landings, shall withstand the effects of loads and stresses within limits and under conditions specified in ANSI A14.3.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
  - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

## 2.2 METALS

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
- B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
- C. Stainless-Steel Bars and Shapes: ASTM A276, Type 304.
- D. Rolled-Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.
- E. Rolled-Stainless-Steel Floor Plate: ASTM A793.
- F. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.
- G. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.
- H. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4.
  - 1. Size of Channels: 1-5/8 by 1-5/8 inches, or as indicated on the plans.
  - 2. Material: Galvanized steel, ASTM A653/A653M, structural steel, Grade 33, with G90 coating; 0.079-inch nominal thickness.
  - 3. Material: Cold-rolled steel, ASTM A1008/A1008M, structural steel, Grade 33; 0.0677-inch minimum thickness; coated with rust-inhibitive, baked-on, acrylic enamel, or hot-dip galvanized after fabrication.
- I. Cast Iron: Either gray iron, ASTM A48/A48M, or malleable iron, ASTM A47/A47M, unless otherwise indicated.
- J. Aluminum Extrusions: ASTM B221, Alloy 6063-T6.
- K. Aluminum-Alloy Rolled Tread Plate: ASTM B632/B632M, Alloy 6061-T6.
- L. Aluminum Castings: ASTM B26/B26M, Alloy 443.0-F.
- M. Nickel Silver Castings: ASTM B584, Alloy UNS No. C97600 (20 percent leaded nickel bronze).

## 2.3 FASTENERS

- A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B633 or ASTM F1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
  - 1. Provide stainless-steel fasteners for fastening aluminum.
  - 2. Provide stainless-steel fasteners for fastening stainless steel.
  - 3. Provide stainless-steel fasteners for fastening nickel silver.
  - 4. Provide bronze fasteners for fastening bronze.
- B. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329.
- C. Post-Installed Anchors: Torque-controlled expansion anchors or epoxy anchors.
  - 1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941, Class Fe/Zn 5, unless otherwise indicated.
  - 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F593, and nuts, ASTM F594.
- D. Slotted-Channel Inserts: Cold-formed, hot-dip galvanized-steel box channels (struts) complying with MFMA-4, 1-5/8 by 7/8 inches by length indicated with anchor straps or studs not less than 3 inches long at not more than 8 inches o.c. Provide with temporary filler and tee-head bolts, complete with washers and nuts, all zinc-plated to comply with ASTM B633, Class Fe/Zn 5, as needed for fastening to inserts.

## 2.4 MISCELLANEOUS MATERIALS

- A. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting," Section 099123 Interior Painting,"
- B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
  - 1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
- C. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.
- D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
- E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

- G. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained, concrete with a minimum 28-day compressive strength of 3000 psi.

## 2.5 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Use connections that maintain structural value of joined pieces.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.
- C. Weld corners and seams continuously to comply with the following:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.
  - 4. At exposed connections, finish exposed welds and surfaces smooth and blended.
- D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Locate joints where least conspicuous.
- E. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- F. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors not less than 8 inches from ends and corners of units and 24 inches o.c.

## 2.6 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
- C. Fabricate steel girders for wood frame construction from continuous steel shapes of sizes indicated.
  - 1. Where wood nailers are attached to girders with bolts or lag screws, drill or punch holes at 16 inches o.c.
- D. Fabricate steel pipe columns for supporting wood frame construction from steel pipe with steel baseplates and top plates as indicated. Drill or punch baseplates and top plates for anchor and connection bolts and weld to pipe with fillet welds all around. Make welds the same size as pipe wall thickness unless otherwise indicated.

## 2.7 SHELF ANGLES

- A. Fabricate shelf angles from steel angles of sizes indicated and for attachment to concrete framing. Provide horizontally slotted holes to receive 3/4-inch bolts, spaced not more than 6 inches from ends and 24 inches o.c., unless otherwise indicated.
- B. For cavity walls, provide vertical channel brackets to support angles from backup masonry and concrete.
- C. Galvanize and prime shelf angles located in exterior walls.
- D. Prime shelf angles located in exterior walls with primer specified in Section 099113 "Exterior Painting."
- E. Furnish wedge-type concrete inserts, complete with fasteners, to attach shelf angles to cast-in-place concrete.

## 2.8 METAL LADDERS

- A. General:
  - 1. Comply with ANSI A14.3, except for elevator pit ladders.
- B. Steel Ladders:
  - 1. Space siderails 18 inches apart unless otherwise indicated.
  - 2. Siderails: Continuous, 1/2-by-2-1/2-inch steel flat bars, with eased edges.
  - 3. Rungs: 3/4-inch-diameter or 3/4-inch-square steel bars.
  - 4. Fit rungs in centerline of siderails; plug-weld and grind smooth on outer rail faces.
  - 5. Provide nonslip surfaces on top of each rung.
  - 6. Galvanize and prime exterior ladders, including brackets.
  - 7. Primeladders, including brackets and fasteners, with primer specified in Section 099113 "Exterior Painting."

## 2.9 METAL SHIPS LADDERS

- A. General:
  - 1. Comply with IBC Section 1011.15.
- B. Steel Ship's Ladders:
  - 1. Treads to have a minimum depth of 5"
  - 2. Risers to have a minimum height of 9 1/2"
  - 3. Handrails to be provided on both sides
  - 4. The minimum clear width at handrails shall be 20"
  - 5. Provide nonslip surfaces on all treads and platforms
  - 6. Galvanize and prime exterior ladders, including brackets.
  - 7. Primeladders, including brackets and fasteners, with primer specified in Section 099113 "Exterior Painting."

## 2.10 METAL FLOOR PLATE

- A. Fabricate from rolled-steel floor plate of thickness indicated below:
  - 1. Thickness: 1/8 inch.
- B. Provide steel angle supports as indicated.
- C. Provide flush steel bar drop handles for lifting removable sections, one at each end of each section.

## 2.11 STRUCTURAL-STEEL DOOR FRAMES

- A. Fabricate structural-steel door frames from steel shapes, plates, and bars of size and to dimensions indicated, fully welded together, with 5/8-by-1-1/2-inch steel channel stops. Plug-weld built-up members and continuously weld exposed joints. Reinforce frames and drill and tap as necessary to accept finish hardware.
  - 1. Provide with integrally welded steel strap anchors for securing door frames into adjoining concrete or masonry.
- B. Galvanize exterior steel frames.
- C. Prime steel frames with primer specified in Section 099113 "Exterior Painting."

## 2.12 MISCELLANEOUS STEEL TRIM

- A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.
- B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.
- C. Galvanize exterior miscellaneous steel trim.
- D. Prime miscellaneous steel trim with primer specified in Section 099113 "Exterior Painting."

## 2.13 METAL BOLLARDS

- A. Fabricate metal bollards from Schedule 40 steel pipe or steel shapes, as indicated on plans.
  - 1. If bollards are not indicated to be concrete filled, cap bollards with 1/4-inch-thick steel plate.
- B. Fabricate sleeves for bollard anchorage from steel pipe or tubing with 1/4-inch-thick steel plate welded to bottom of sleeve.
- C. Prime bollards with primer specified in Section 099113 "Exterior Painting."

2.14 LOOSE BEARING AND LEVELING PLATES

- A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction. Drill plates to receive anchor bolts and for grouting.

2.15 LOOSE STEEL LINTELS

- A. Fabricate loose steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated.
- B. Galvanize loose steel lintels located in exterior walls.
- C. Prime loose steel lintels located in exterior walls with primer specified in Section 099113 "Exterior Painting."

2.16 STEEL WELD PLATES AND ANGLES

- A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.17 FINISHES, GENERAL

- A. Finish metal fabrications after assembly.

2.18 STEEL AND IRON FINISHES

- A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.
- B. Shop prime iron and steel items unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
  - 1. Shop prime with primers specified in Section 099113 "Exterior Painting" primers or specified in Section 099123 "Interior Painting"
- C. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:
  - 1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
  - 2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
  - 3. Items Indicated to Receive Primers Specified in Section 099113 "Exterior Painting": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
  - 4. Other Items: SSPC-SP 3, "Power Tool Cleaning."
- D. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.



## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.
  - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

### 3.2 INSTALLING METAL BOLLARDS

- A. Fill metal-capped bollards solidly with concrete and allow concrete to cure seven days before installing, unless otherwise indicated.
- B. Anchor bollards in concrete with pipe sleeves preset and anchored into concrete. Fill annular space around bollard solidly with nonshrink grout.
- C. Anchor bollards in place with concrete footings. Place concrete and vibrate or tamp for consolidation. Support and brace bollards in position until concrete has cured.
- D. Fill bollards solidly with concrete, mounding top surface to shed water.

### 3.3 INSTALLING BEARING AND LEVELING PLATES

- A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.

- B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with nonshrink grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

#### 3.4 ADJUSTING AND CLEANING

- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
- B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

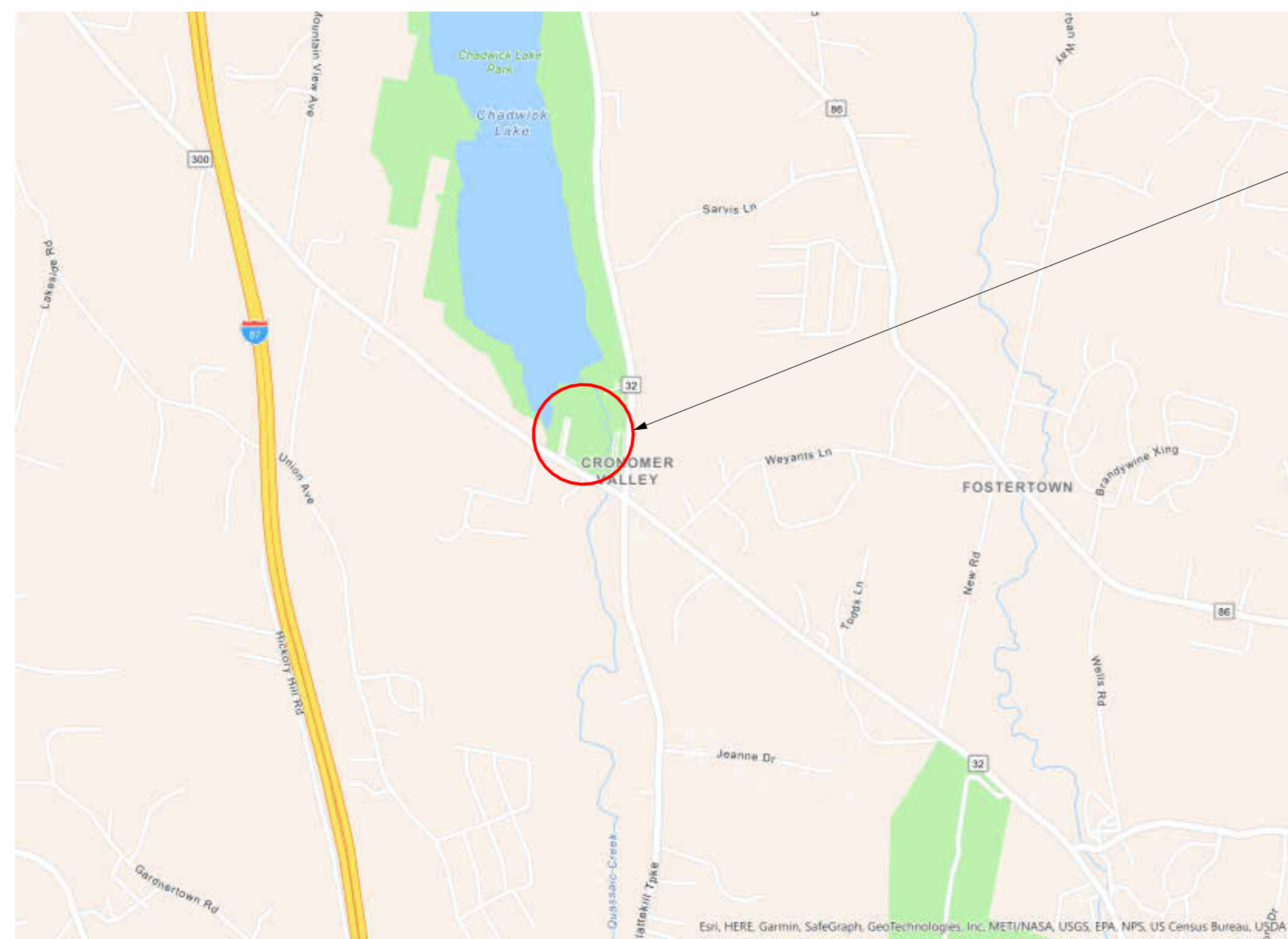
END OF SECTION 055000

# NEWBURGH RECREATION CENTER CHADWICK LAKE PARK

BID SET



THE PROJECT IS BID AS A SINGLE PRIME CONSTRUCTION PROJECT DUE TO A WICKS LAW EXEMPTION PERMITTED THROUGH THE TOWN'S PROJECT LABOR AGREEMENT. ALL WORK DEPICTED ON THE PLANS AND IN THE SPECIFICATIONS IS THE RESPONSIBILITY OF THE SUCCESSFUL BIDDER INCLUDING ANY WORK IDENTIFIED AS BY MECHANICAL, PLUMBING, OR ELECTRICAL CONTRACT.



**1**  
G-100 LOCATION MAP  
SCALE: N.T.S.

BUILDING LOCATION

DRAWING LIST	
DWG No.	DESCRIPTION
G-100	COVER SHEET
G-101	BUILDING CODE ANALYSIS AND EGRESS PLAN
G-102	LEGEND, ADA CLEARANCES, AND NOTES
C-001	NOTES
C-002	NOTES
C-101	EXISTING CONDITIONS & DEMOLITION PLAN
C-102	OVERALL SITE PLAN
C-103	SITE DEVELOPMENT PLAN
C-104	SEPTIC SYSTEM PLAN
C-105	WATER MAIN PLAN & PROFILE
C-106	PARTIAL STORM WATER AND GRADING PLAN
C-106A	ALTERNATE PARTIAL STORM WATER AND GRADING PLAN
C-107	PARTIAL STORM WATER AND GRADING PLAN
C-108	EROSION AND SEDIMENT CONTROL PLAN
C-501	TYPICAL SEWAGE DISPOSAL SYSTEM DETAILS
C-502	TYPICAL SEWAGE DISPOSAL SYSTEM DETAILS
C-503	TYPICAL WATER SYSTEM DETAILS
C-504	TYPICAL STORM WATER DETAILS
C-505	TYPICAL STORM WATER DETAILS
C-506	TYPICAL STORM WATER DETAILS
C-507	TYPICAL SITE DEVELOPMENT DETAILS
C-508	TYPICAL EROSION & SEDIMENT CONTROL DETAILS
C-509	TYPICAL EROSION & SEDIMENT CONTROL DETAILS
S-001	STRUCTURAL NOTES
S-101	FOUNDATION PLAN
S-102	SLAB PLAN
S-103	WALL FRAMING
S-104	ATTIC FRAMING PLAN
S-105	ROOF FRAMING
S-201	FOUNDATION ELEVATIONS
S-202	STRUCTURAL EXCAVATION & BACKFILL PROFILES
S-203	STRUCTURAL EXCAVATION & BACKFILL PROFILES
S-301	SECTIONS
S-302	SECTIONS
S-501	FOUNDATION DETAILS
S-502	FOUNDATION DETAILS
A-101	FIRST FLOOR
A-102	PARTIAL FIRST FLOOR PLANS
A-103	PARTIAL MECH ATTIC PLANS
A-104	ROOF PLAN & DETAILS
A-105	DETAILS
A-106	GYMNASIUM COURT LINES PLAN
A-107	GYMNASIUM COURT LINES/ FINISH PLAN
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-303	WALL SECTIONS
A-304	WALL SECTIONS & DETAILS
A-305	VESTIBULE SECTION & DETAILS
A-601	INTERIOR ELEVATIONS

DRAWING LIST	
DWG No.	DESCRIPTION
A-602	INTERIOR ELEVATIONS
A-701	DOOR AND WINDOW SCHEDULE & DETAILS
A-702	FINISH SCHEDULE & DETAILS
A-703	WINDOW TYPES, SCHEDULE, & DETAILS
A-801	REFLECTED CEILING PLAN
A-901	ALTERNATE #1
M-001	MECHANICAL LEGENDS, ABBREVIATIONS & NOTES
M-100	MECHANICAL DUCTWORK PARTIAL PLANS
M-101	MECHANICAL DUCTWORK GYMNASIUM PLAN
M-200	MECHANICAL HYDRONIC PARTIAL PLANS
M-201	MECHANICAL HYDRONIC GYMNASIUM PLAN
M-300	MECHANICAL ENLARGED DUCTWORK PARTIAL PLANS
M-500	MECHANICAL SCHEDULES
M-501	MECHANICAL SCHEDULES
M-600	MECHANICAL DETAILS
P-001	PLUMBING LEGENDS, ABBREVIATIONS & NOTES
P-100	PLUMBING SANITARY PARTIAL PLANS
P-101	PLUMBING SANITARY GYMNASIUM PLAN
P-200	PLUMBING DOMESTIC WATER PARTIAL PLANS
P-201	PLUMBING DOMESTIC WATER GYMNASIUM PLAN
P-400	PLUMBING ENLARGED PLANS
P-600	PLUMBING DETAILS
E-001	ELECTRICAL LEGENDS, ABBREVIATIONS & NOTES
E-100	ELECTRICAL POWER PARTIAL PLANS
E-101	ELECTRICAL PARTIAL POWER PLAN (A/C ALTERNATE)
E-200	ELECTRICAL LIGHTING PARTIAL PLANS
E-201	ELECTRICAL LIGHTING GYMNASIUM PLAN
E-300	ELECTRICAL SYSTEMS PARTIAL PLANS
E-301	ELECTRICAL PARTIAL SYSTEMS PLAN
E-400	ELECTRICAL ENLARGED PLANS
E-500	ELECTRICAL SCHEDULES
E-501	ELECTRICAL SCHEDULES
E-502	ELECTRICAL SCHEDULES
E-503	ELECTRICAL SCHEDULES
E-504	ELECTRICAL SCHEDULES
E-600	ELECTRICAL DETAILS
E-601	ELECTRICAL DETAILS
E-602	ELECTRICAL DETAILS
E-603	ELECTRICAL DETAILS
E-604	ELECTRICAL DETAILS
E-605	ELECTRICAL DETAILS
E-700	ELECTRICAL SINGLE LINE DIAGRAM
E-701	ELECTRICAL FIRE ALARM RISER DIAGRAM
E-702	ELECTRICAL RISER DIAGRAMS
FP-001	GENERAL NOTES & SYMBOL LIST
FP-100	PARTIAL ATTIC PLANS - FIRE PROTECTION
FP-101	FIRST FLOOR PLAN - FIRE PROTECTION
FP-500	DETAILS

UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHTS RESERVED ©

**NEW RECREATION CENTER  
TOWN OF NEWBURGH**

CHADWICK LAKE PARK  
1702 NY-300, Newburgh, NY 12550

COVER SHEET

REVISIONS

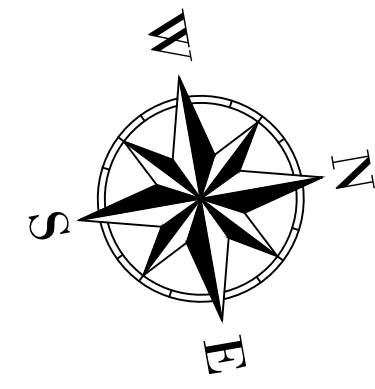
NO.	DESCRIPTION	DATE
1	ADDENDUM I	6 MAR, 2024

ISSUED DATE: 28 FEB, 2024  
DESIGNED BY: AW  
DRAWN BY: CH  
CHECKED BY: AW  
REVIEWED BY: ML

SHEET NO.

**G-100**

PROJECT # 21-135 PHASE #



BID SET



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©

## TOWN OF NEWBURGH RECREATION CENTER

CHADWICK LAKE PARK  
 1702 ROUTE 300  
 NEWBURGH, N.Y. 12550

### OVERALL SITE PLAN

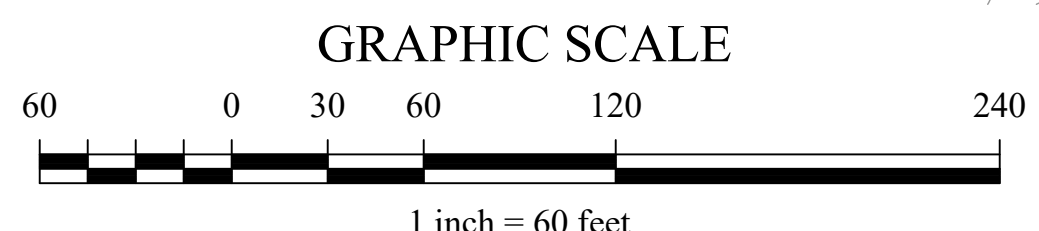
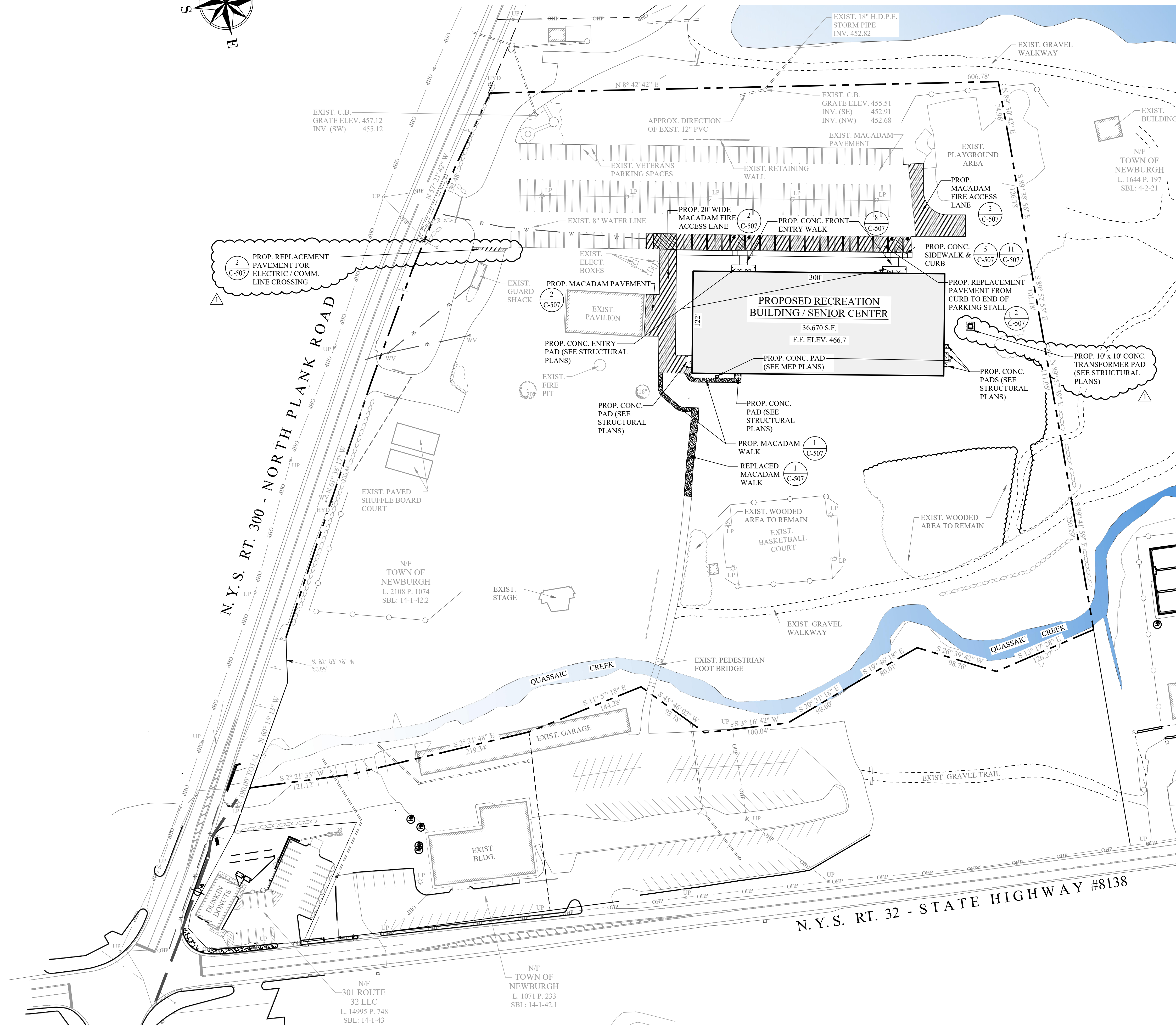
REVISIONS		
NO.	DESCRIPTION	DATE
△	ADDENDUM #1	3-6-2024

ISSUED DATE:	28 February, 2024
DESIGN BY:	A.P.M.
DRAWN BY:	J.R.J.
CHECKED BY:	S.E.A.
REVIEWED BY:	M.W.W.

SHEET NO.

# C-102

PROJECT # 21-135 PHASE #



1 OVERALL SITE PLAN  
 SCALE: 1" = 60'

#### LEGEND

---	EXIST. LOT LINE / R.O.W. LINE
+467.7	EXIST. SPOT ELEV.
-460	EXIST. 10' CONTOUR
-462	EXIST. 2' CONTOUR
U.P.	EXIST. UTILITY POLE
⊗	EXIST. TREE

T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil.dwg, C-102, 3/5/2024, 11:55:34 AM

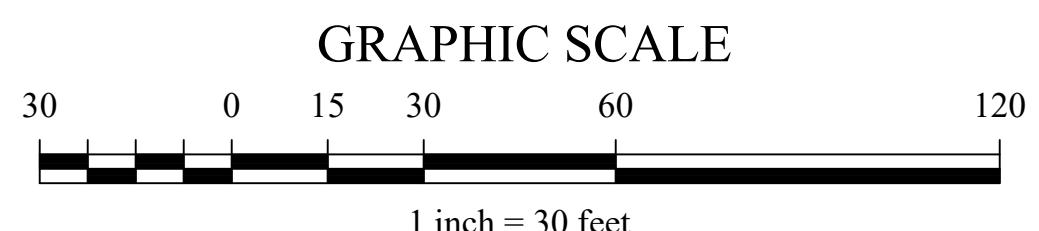
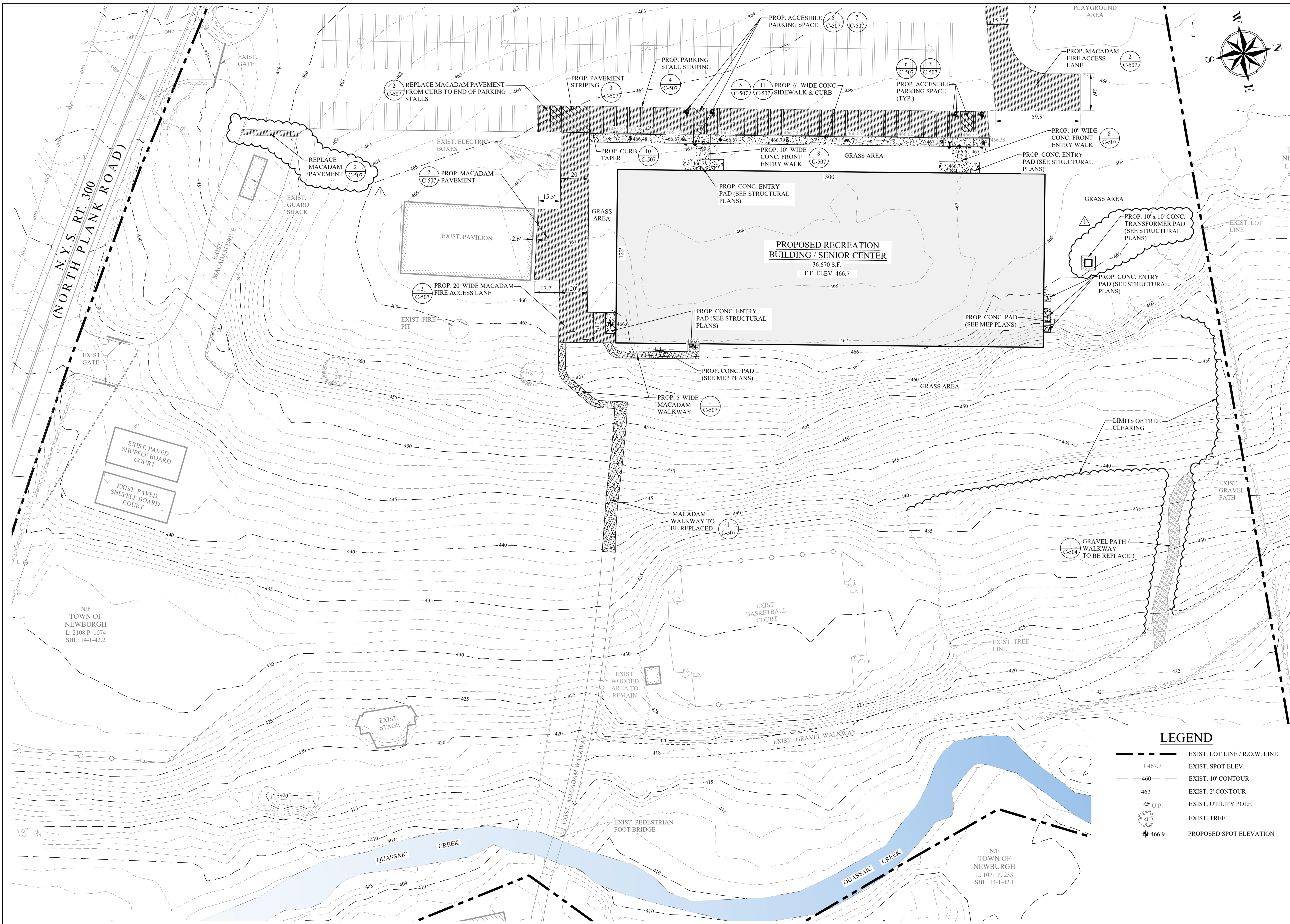
REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE:	28 February, 2024
DESIGN BY:	A.P.M.
DRAWN BY:	J.R.J.
CHECKED BY:	S.E.A.
REVIEWED BY:	M.W.W.

SHEET NO.

# C-103

PROJECT # 21-135 PHASE #



**1 SITE DEVELOPMENT PLAN**  
SCALE: 1" = 30'

T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil.dwg, C-103, 3/5/2024, 11:55:39 AM

## BID SET



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 2209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©

## TOWN OF NEWBURGH RECREATION CENTER

CHADWICK LAKE PARK  
 1702 ROUTE 300  
 NEWBURGH, N.Y. 12550

## SEPTIC SYSTEM PLAN

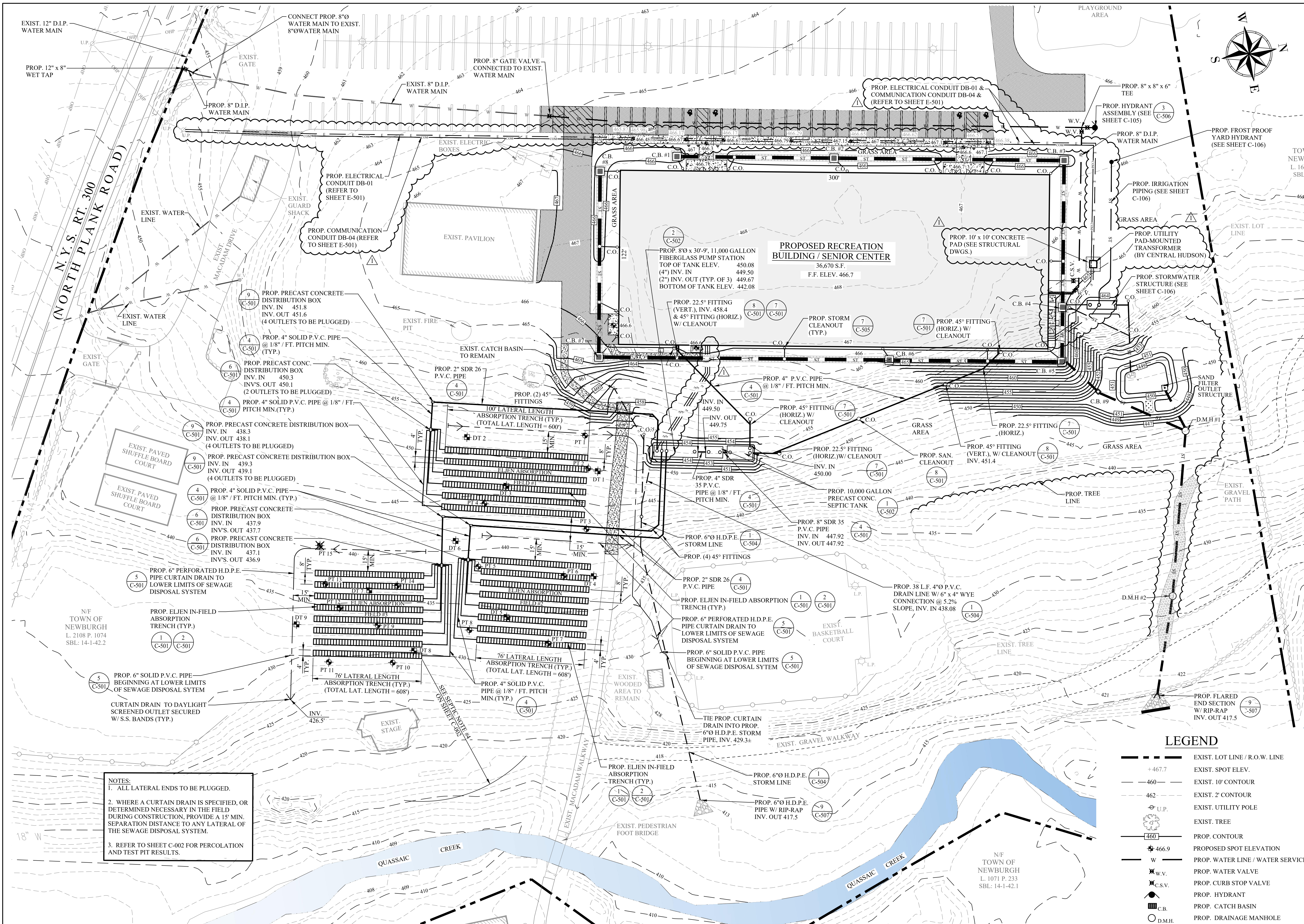
REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE: 28 February, 2024  
 DESIGN BY: A.P.M.  
 DRAWN BY: J.R.J.  
 CHECKED BY: S.E.A.  
 REVIEWED BY: M.W.W.

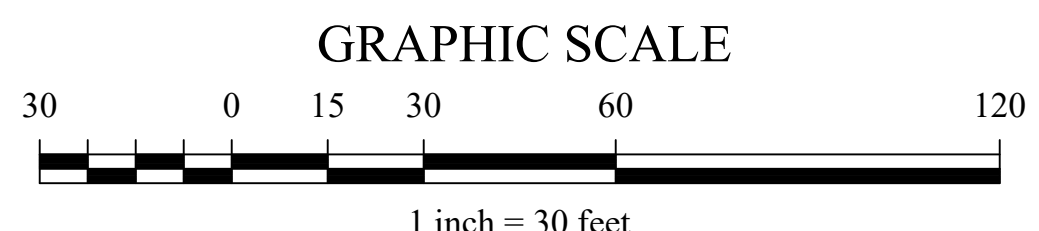
SHEET NO.

# C-104

PROJECT # 21-135 PHASE #



**NOTES:**  
 1. ALL LATERAL ENDS TO BE PLUGGED.  
 2. WHERE A CURTAIN DRAIN IS SPECIFIED, OR DETERMINED NECESSARY IN THE FIELD DURING CONSTRUCTION, PROVIDE A 15" MIN. SEPARATION DISTANCE TO ANY LATERAL OF THE SEWAGE DISPOSAL SYSTEM.  
 3. REFER TO SHEET C-002 FOR PERCOLATION AND TEST PIT RESULTS.



## 1 C-104 SEPTIC SYSTEM PLAN

SCALE: 1" = 30'

### LEGEND

---	EXIST. LOT LINE / R.O.W. LINE
+	EXIST. SPOT ELEV.
---	EXIST. 10' CONTOUR
---	EXIST. 2' CONTOUR
U.P.	EXIST. UTILITY POLE
⊗	EXIST. TREE
460	PROP. CONTOUR
466.9	PROPOSED SPOT ELEVATION
W	PROP. WATER LINE / WATER SERVICE
W.V.	PROP. WATER VALVE
C.S.V.	PROP. CURB STOP VALVE
HYDRANT	PROP. HYDRANT
C.B.	PROP. CATCH BASIN
D.M.H.	PROP. DRAINAGE MANHOLE
C.O.	PROP. CLEANOUT
---	PROP. STORM SEWER PIPE
E	PROP. ELECTRIC CONDUIT
COMM	PROP. COMMUNICATION CONDUIT

T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil.dwg, C-104, 3/5/2024, 11:55:46 AM

## BID SET

TOWNEW L 164 SBL.

EXIST. LOT LINE

UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©



TOWN OF NEWBURGH  
 RECREATION CENTER

CHADWICK LAKE PARK  
 1702 ROUTE 300  
 NEWBURGH, N.Y. 12550

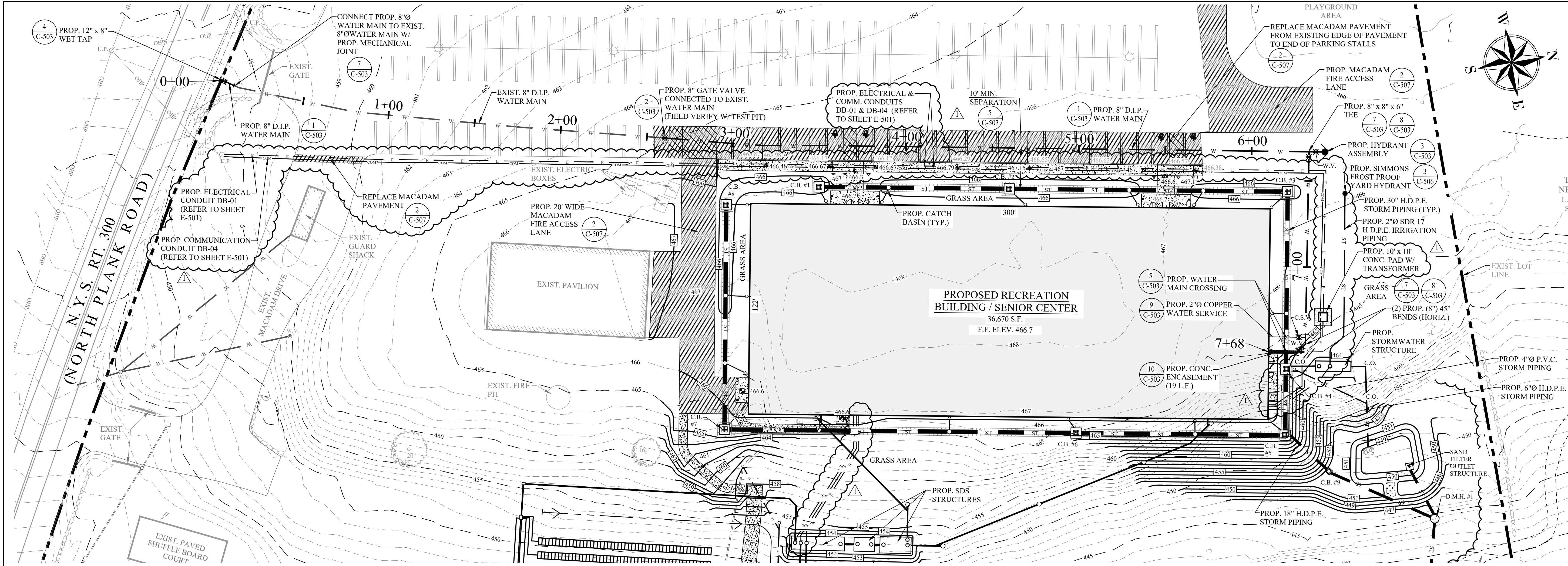
### WATER MAIN PLAN & PROFILE

REVISIONS		
NO.	DESCRIPTION	DATE
△	ADDENDUM #1	3-6-2024

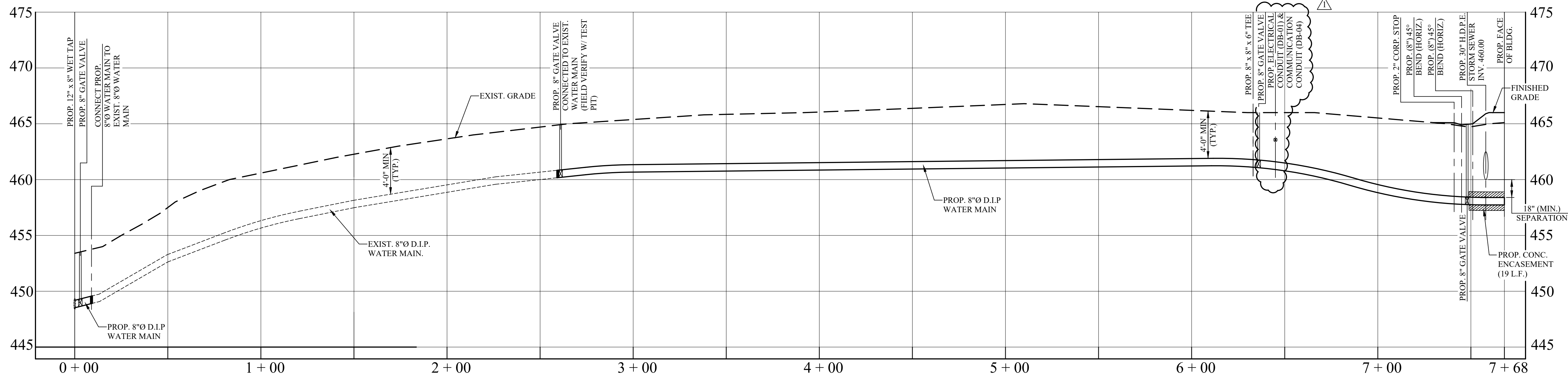
ISSUED DATE:	28 February, 2024
DESIGN BY:	A.P.M.
DRAWN BY:	J.R.J.
CHECKED BY:	S.E.A.
REVIEWED BY:	M.W.W.

SHEET NO. **C-105**

PROJECT # 21-135 PHASE #

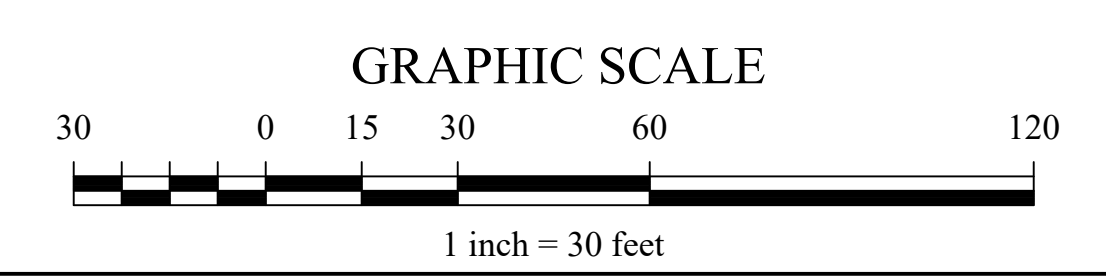


**1 WATER MAIN PLAN**  
 SCALE: 1" = 30'

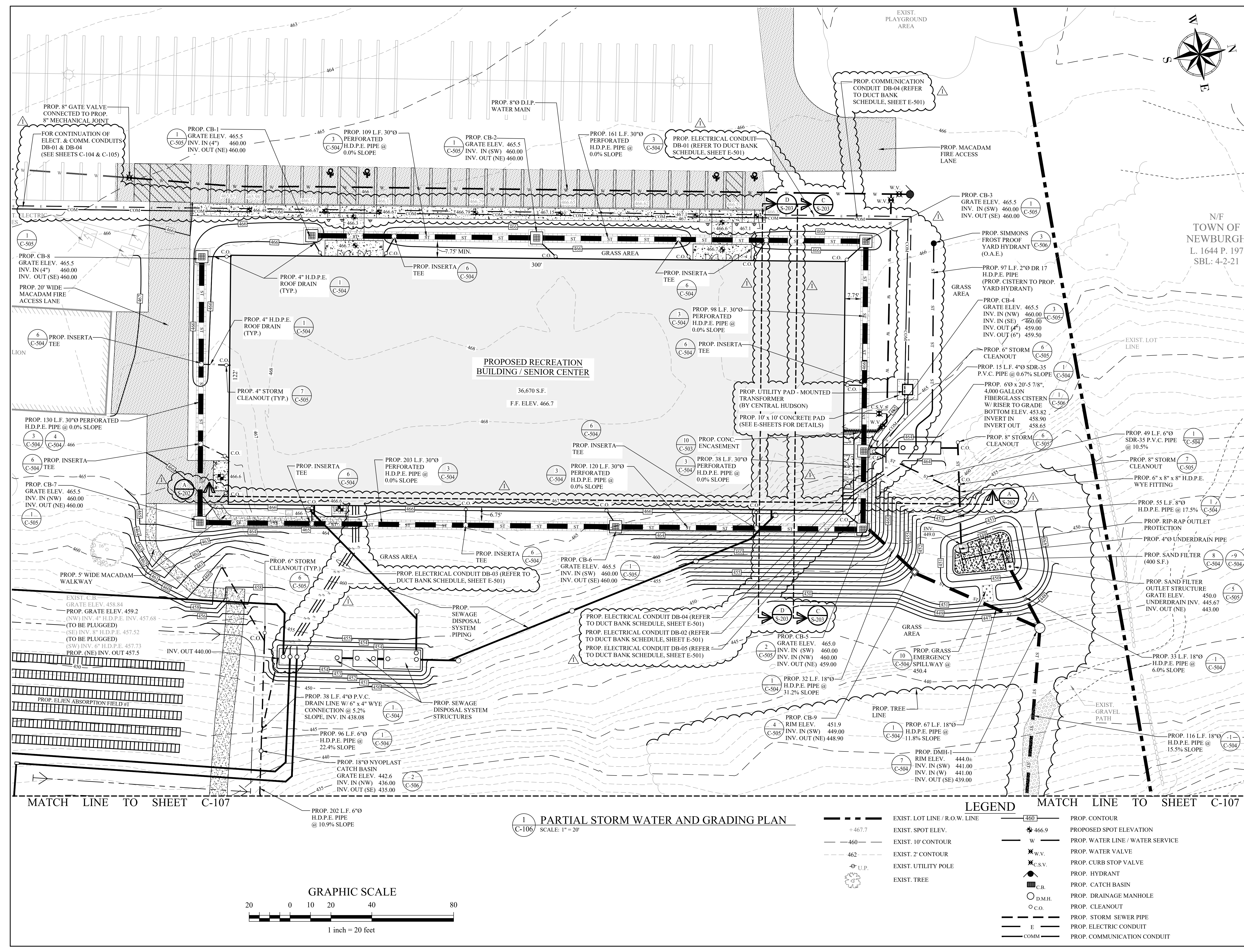


**2 WATER MAIN PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 6'

LEGEND	
---	EXIST. LOT LINE / R.O.W. LINE
+467.7	EXIST. SPOT ELEV.
- - - 460	EXIST. 10' CONTOUR
- - - 462	EXIST. 2' CONTOUR
U.P.	EXIST. UTILITY POLE
W	EXIST. TREE
W	EXIST. WATER MAIN
460	PROP. CONTOUR
466.9	PROPOSED SPOT ELEVATION
W	PROP. WATER LINE / WATER SERVICE
W.V.	PROP. WATER VALVE
C.S.V.	PROP. CURB STOP VALVE
HYDRANT	PROP. HYDRANT
C.B.	PROP. CATCH BASIN
D.M.H.	PROP. DRAINAGE MANHOLE
C.O.	PROP. CLEANOUT
E	PROP. STORM SEWER PIPE
COMM	PROP. ELECTRICAL CONDUIT
COMM	PROP. COMMUNICATION CONDUIT



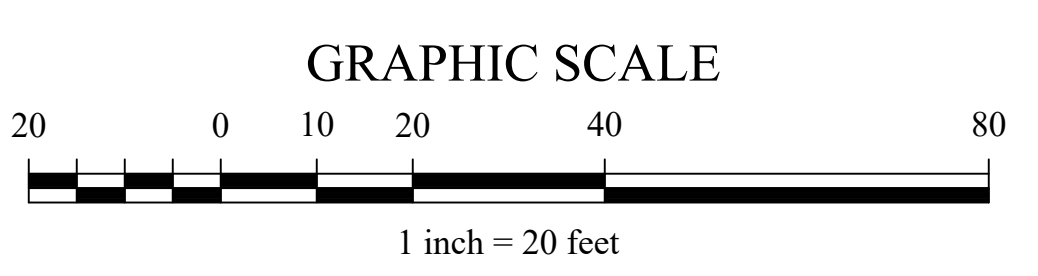
T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil.dwg, C:\US\_3850204\_1135544 AM



**PARTIAL STORM WATER AND GRADING PLAN**  
 SCALE: 1" = 20'

**LEGEND**

- |               |                               |                |                                  |
|---------------|-------------------------------|----------------|----------------------------------|
| ---+467.7---  | EXIST. LOT LINE / R.O.W. LINE | 466.9          | PROP. CONTOUR                    |
| ---460---     | EXIST. SPOT ELEV.             | 466.9          | PROPOSED SPOT ELEVATION          |
| ---462---     | EXIST. 10' CONTOUR            | W              | PROP. WATER LINE / WATER SERVICE |
| U.P.          | EXIST. UTILITY POLE           | W.V.           | PROP. WATER VALVE                |
| (Tree symbol) | EXIST. TREE                   | C.S.V.         | PROP. CURB STOP VALVE            |
|               |                               | Hydrant symbol | PROP. HYDRANT                    |
|               |                               | CB symbol      | PROP. CATCH BASIN                |
|               |                               | D.M.H.         | PROP. DRAINAGE MANHOLE           |
|               |                               | C.O.           | PROP. CLEANOUT                   |
|               |                               | E              | PROP. STORM SEWER PIPE           |
|               |                               | COMM           | PROP. ELECTRIC CONDUIT           |
|               |                               |                | PROP. COMMUNICATION CONDUIT      |



T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil.dwg, C-106, 3/5/2024, 11:55:59 AM



N/T  
 TOWN OF  
 NEWBURGH  
 L. 1644 P. 197  
 SBL: 4-2-21



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©

## TOWN OF NEWBURGH RECREATION CENTER

CHADWICK LAKE PARK  
 1702 ROUTE 300  
 NEWBURGH, N.Y. 12550

## ALTERNATE PARTIAL STORM WATER AND GRADING PLAN

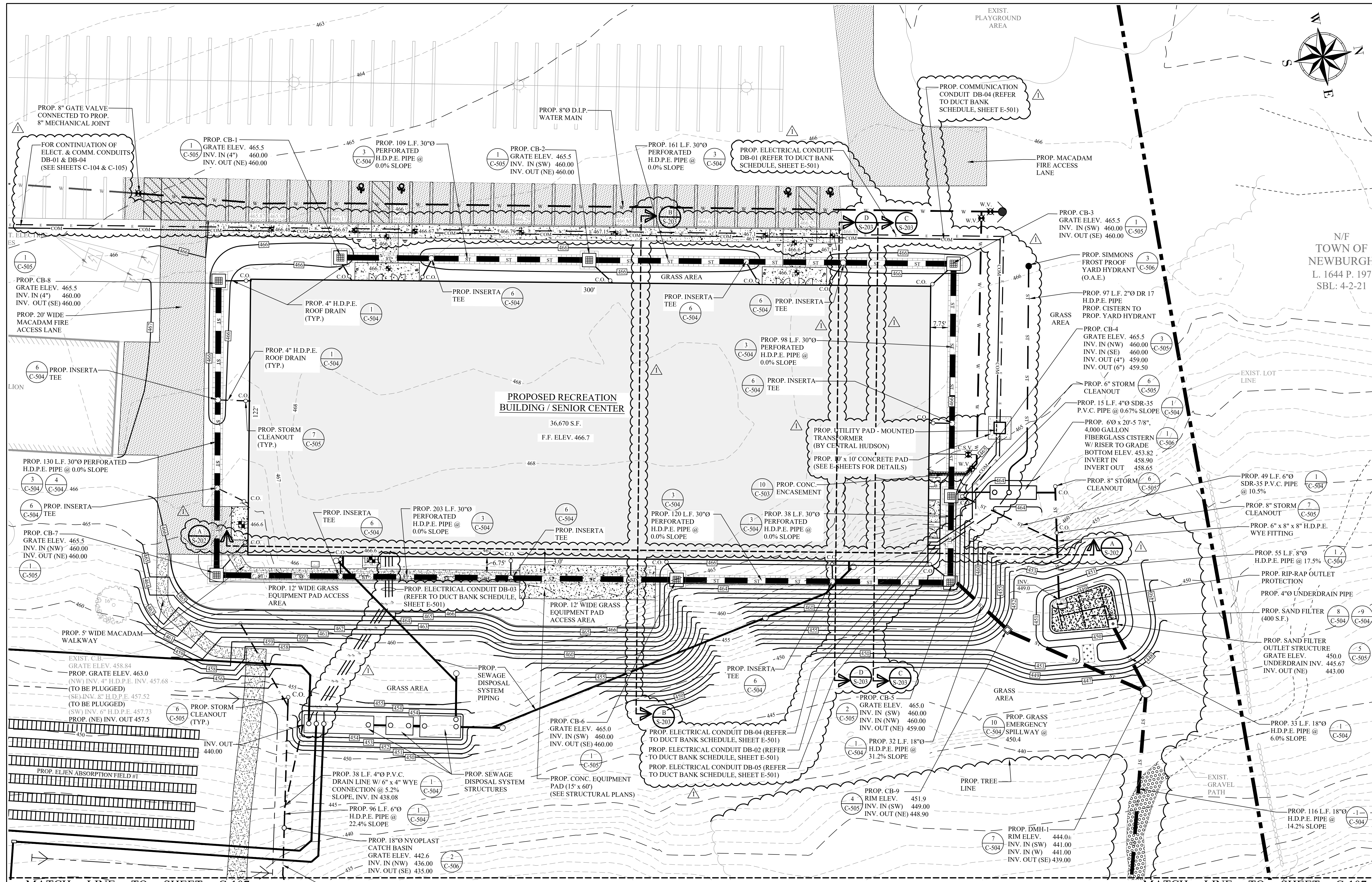
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE:	28 February, 2024
DESIGN BY:	A.P.M.
DRAWN BY:	J.R.J.
CHECKED BY:	S.E.A.
REVIEWED BY:	M.W.W.

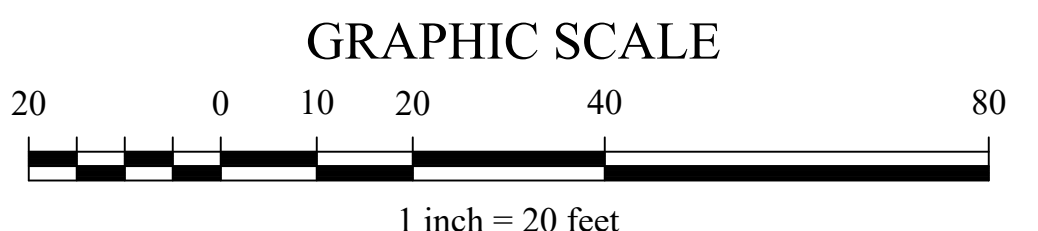
SHEET NO.

# C-106A

PROJECT # 21-135 PHASE #



1 ALTERNATE PARTIAL STORM WATER AND GRADING PLAN  
 SCALE: 1" = 20'



T:\2021\135 Newburgh Recreation Center\Drafting\1-135 Newburgh Recreation Center - Civil Alternates.dwg - C-106A\_3/6/2024 11:56:18 AM



BID SET



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHTS RESERVED ©

NEW RECREATION CENTER  
 TOWN OF NEWBURGH

CHADWICK LAKE PARK  
 1702 NY-300, Newburgh, NY 12550

SLAB PLAN

REVISIONS

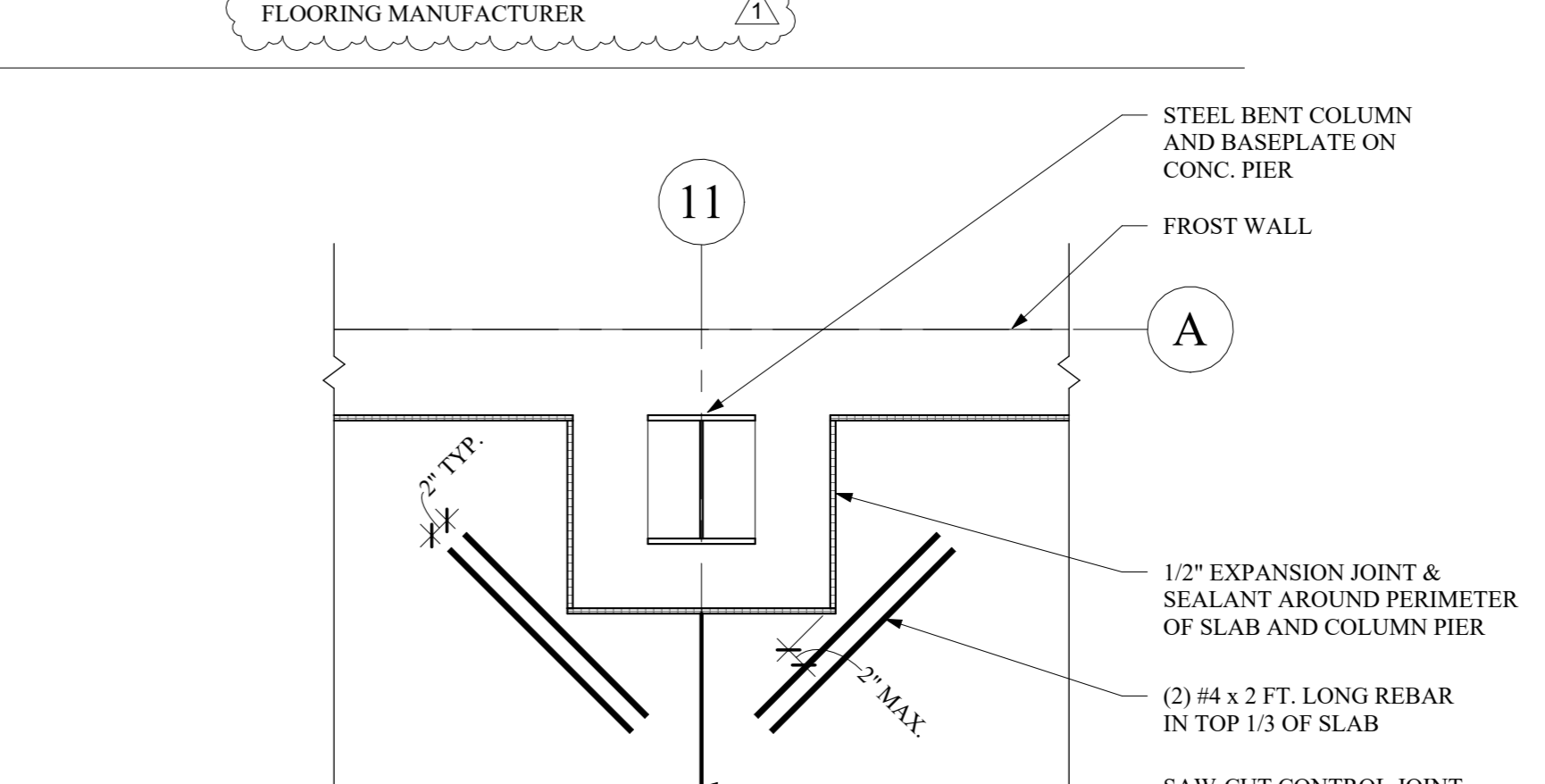
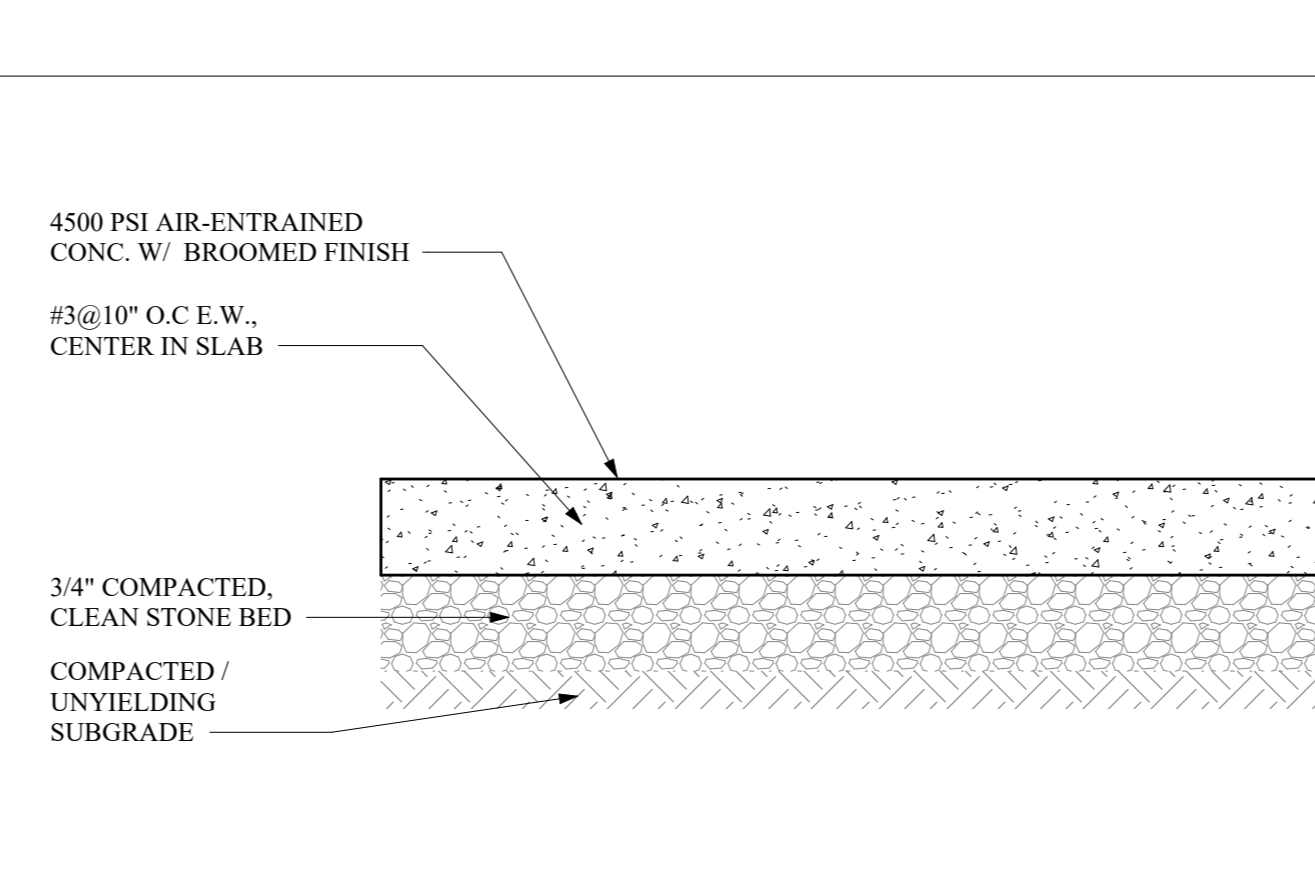
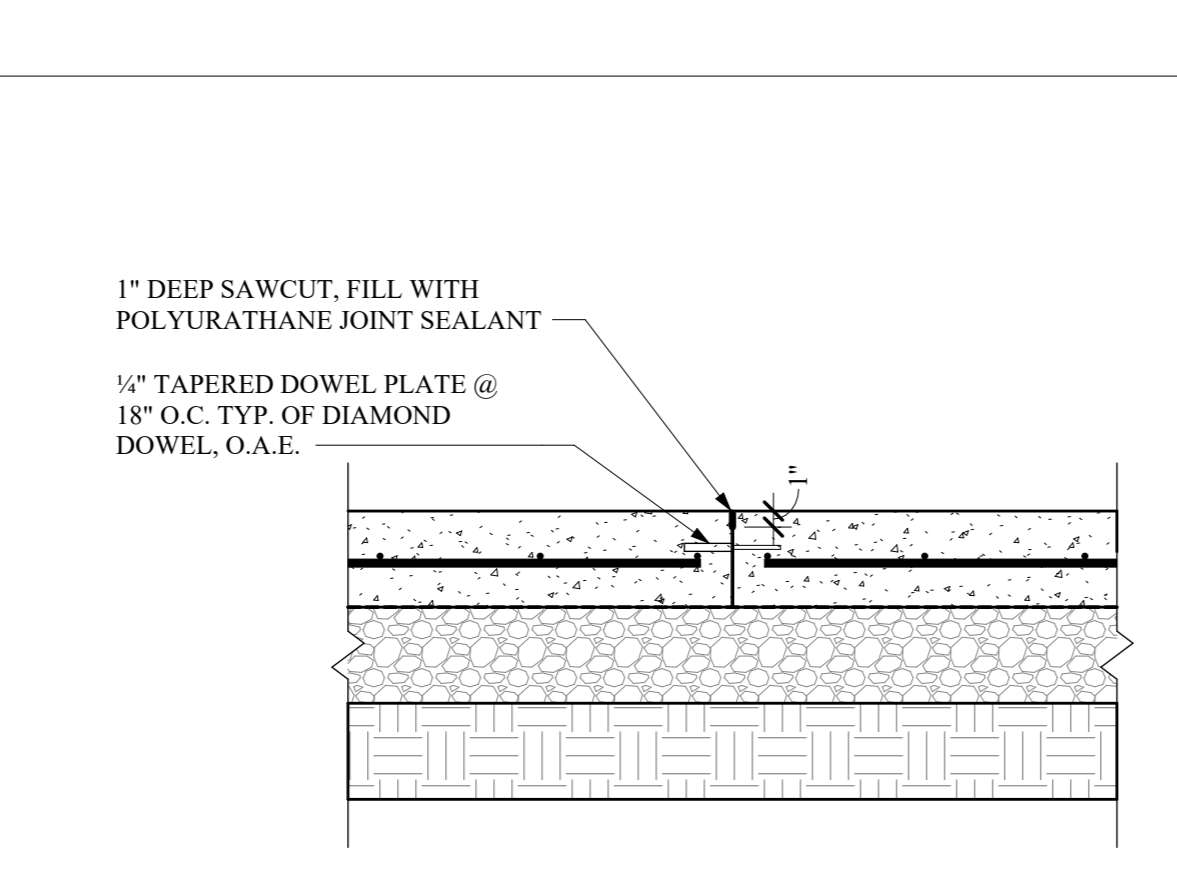
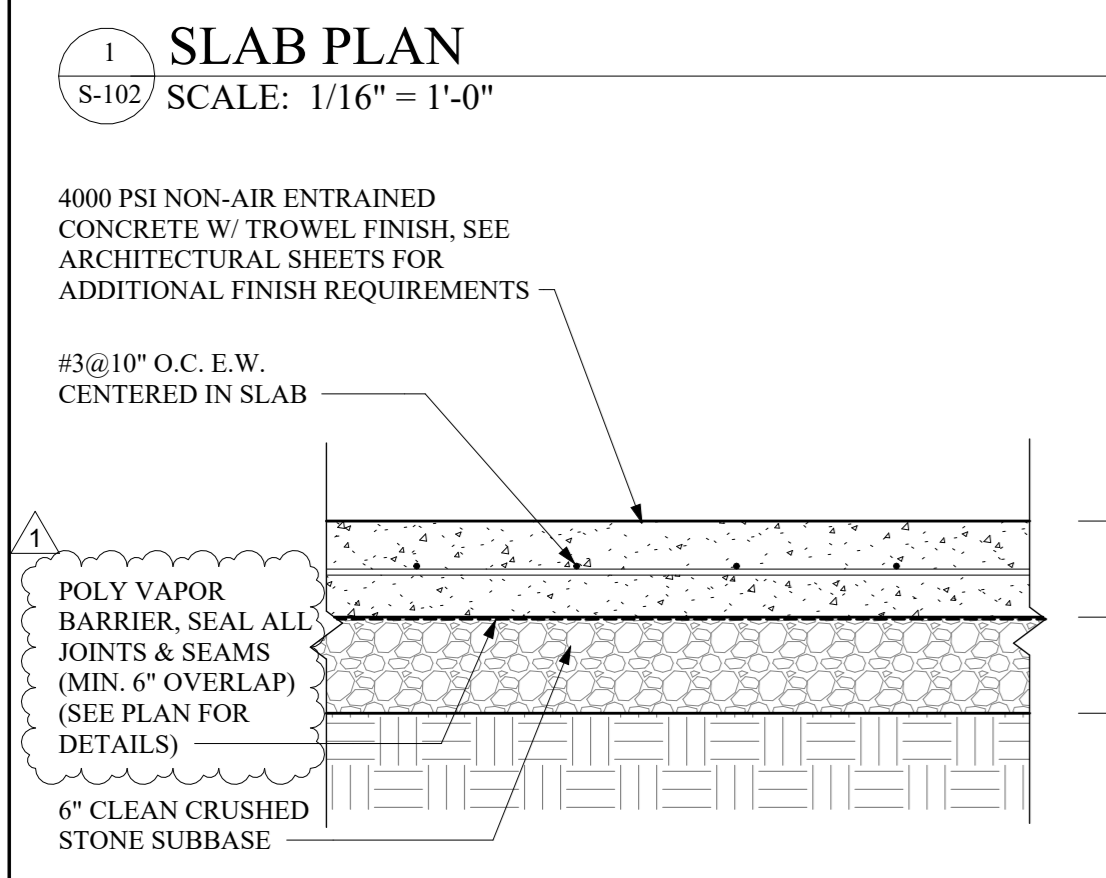
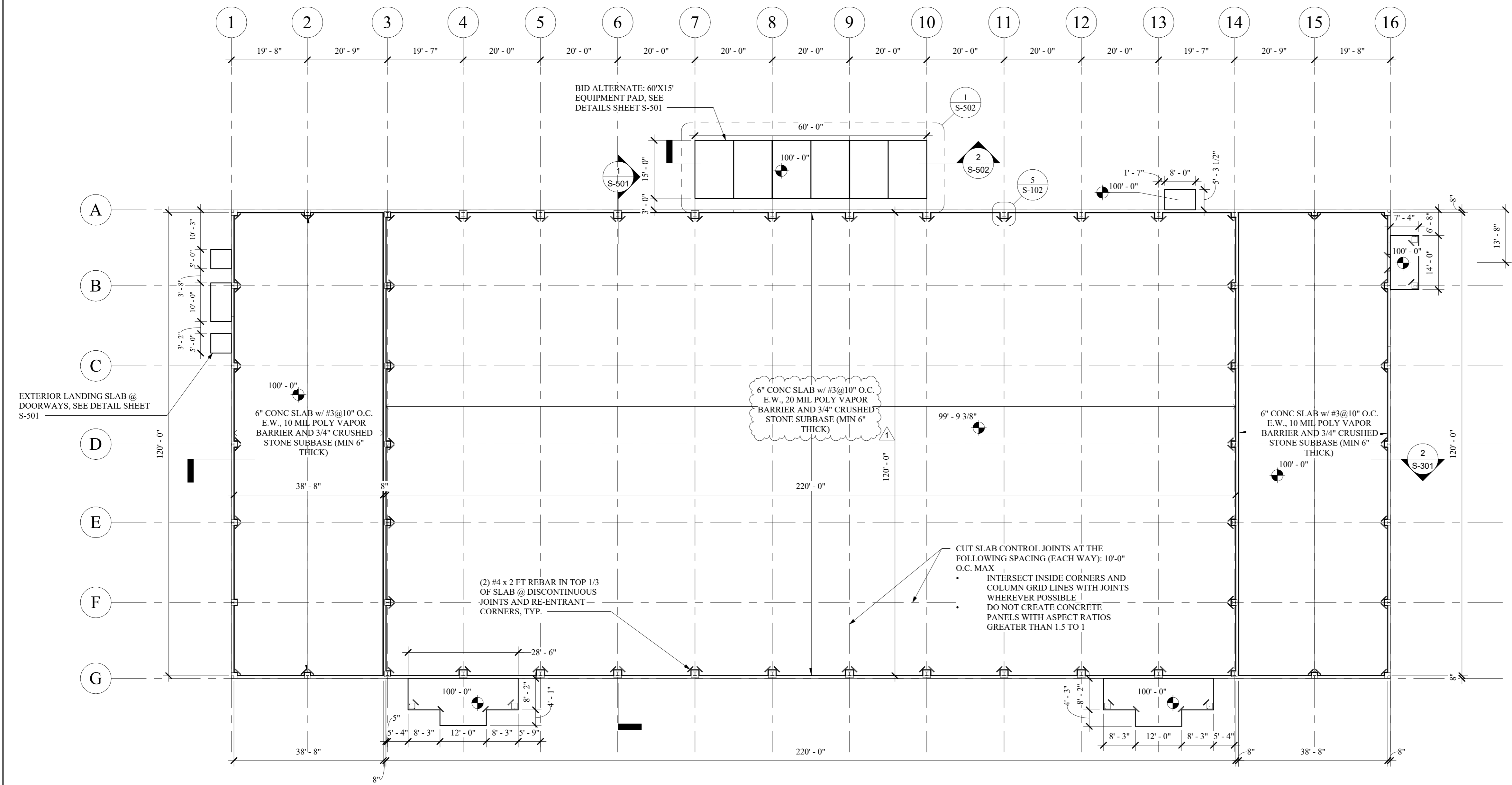
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE:	28 FEB, 2024
DESIGNED BY:	WRB
DRAWN BY:	WRB
CHECKED BY:	JSS
REVIEWED BY:	ML

SHEET NO.

# S-102

PROJECT # 21-135 PHASE #



C:\Users\kshwan\Documents\21-135 Newburgh Rec-Full Size-MTL\_4\shwan04.dwg 3/6/2024 3:03:39 PM

BID SET



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHTS RESERVED ©

**NEW RECREATION CENTER**  
**TOWN OF NEWBURGH**

CHADWICK LAKE PARK  
 1702 NY-300, Newburgh, NY 12550

ROOF FRAMING

REVISIONS

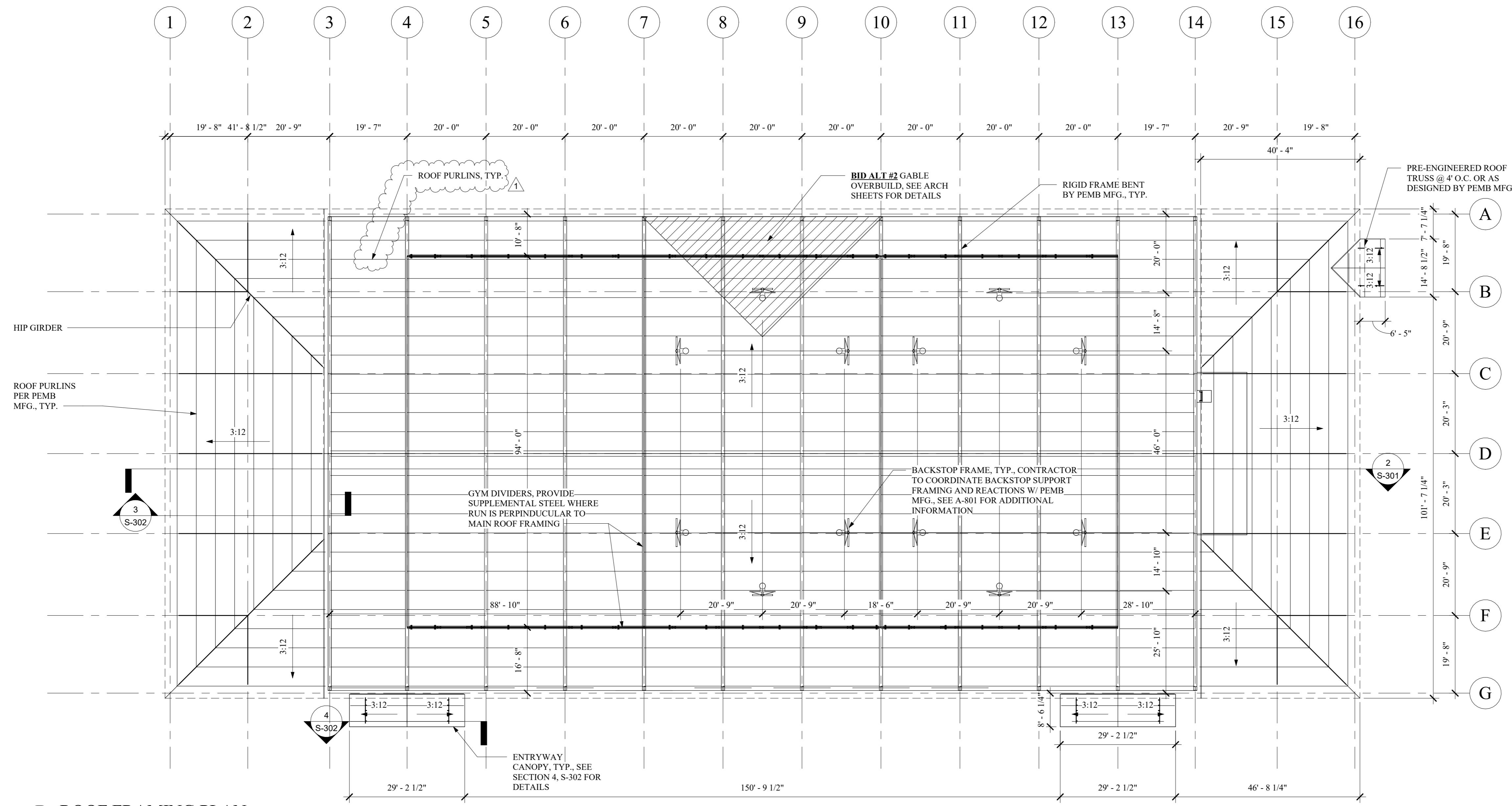
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE: 28 FEB, 2024  
 DESIGNED BY: WRB  
 DRAWN BY: WRB  
 CHECKED BY: JSS  
 REVIEWED BY: ML

SHEET NO.

# S-105

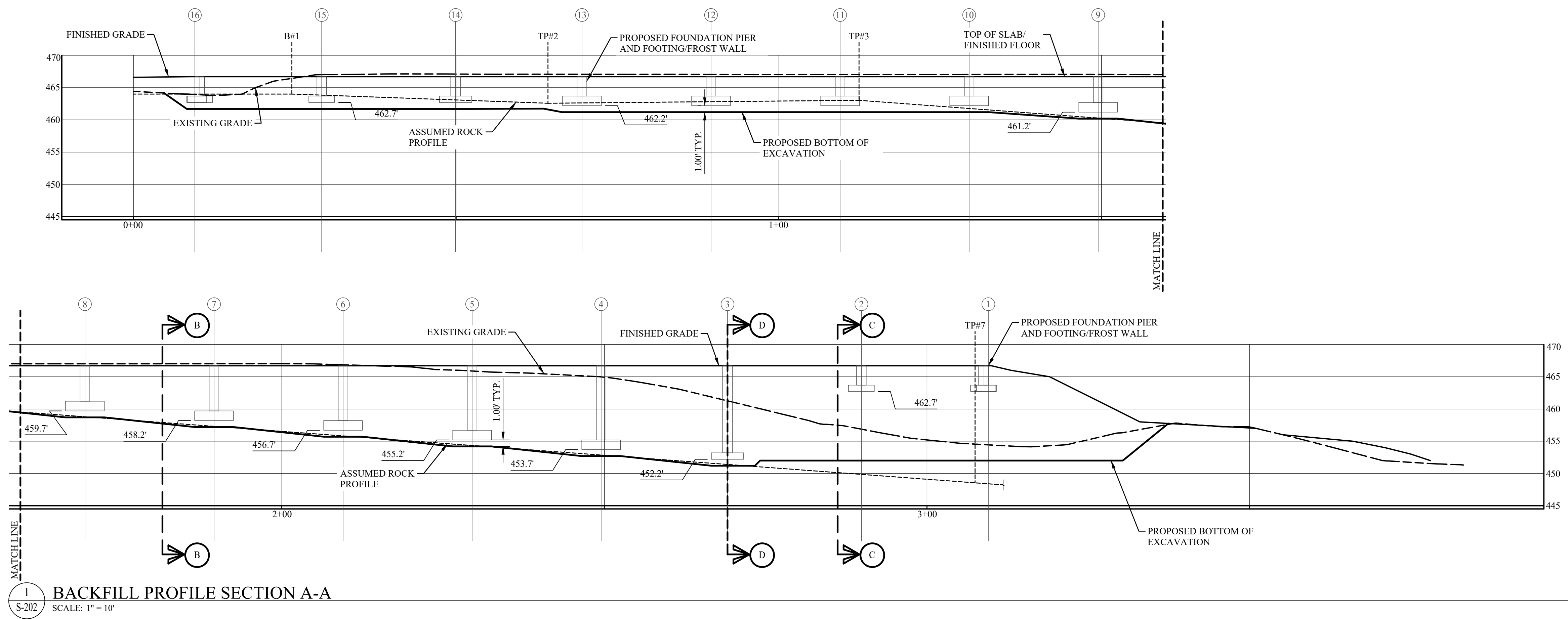
PROJECT # 21-135 PHASE #



**1 ROOF FRAMING PLAN**  
 SCALE: 1/16" = 1'-0"

GYM DIVIDER NOTES:

- BASIS OF DESIGN SHALL BE DRAPER, INC.
- RIGID DIVIDER:
  - WEIGHT = 14 PLF
  - ATTACHEMENT POINTS SHALL BE MAX 8'-0" O.C.
- FOLD UP DIVIDER:
  - WEIGHT = 10 PLF
  - ATTACHEMENT POINTS SHALL BE MAX 8'-0" O.C.



1  
 S-202  
 BACKFILL PROFILE SECTION A-A  
 SCALE: 1" = 10'



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©

### TOWN OF NEWBURGH RECREATION CENTER

CHADWICK LAKE PARK  
 1702 ROUTE 300  
 NEWBURGH, N.Y. 12550

### STRUCTURAL EXCAVATION & BACKFILL PROFILES

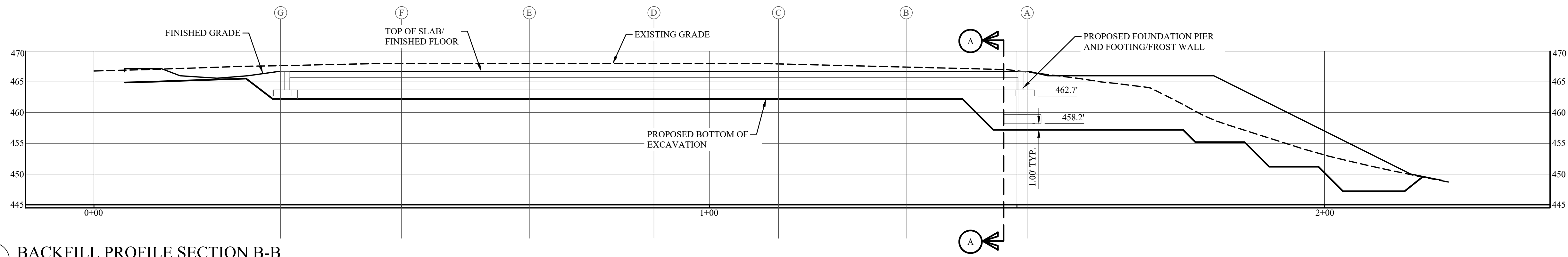
REVISIONS		
NO.	DESCRIPTION	DATE
△	ADDENDUM #1	3-6-2024

ISSUED DATE: 28 February, 2024  
 DESIGN BY: WRB  
 DRAWN BY: WRB  
 CHECKED BY: JSS  
 REVIEWED BY: ML

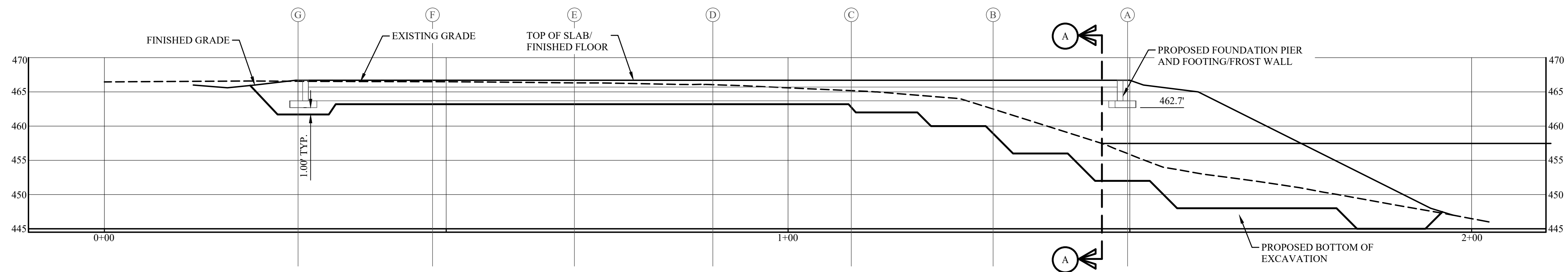
SHEET NO.

# S-202

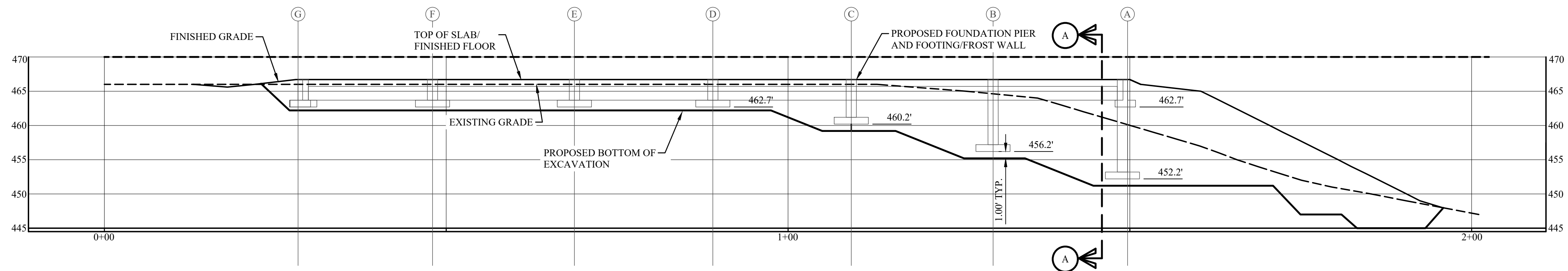
PROJECT # 21-135 PHASE #



1 BACKFILL PROFILE SECTION B-B  
SCALE: 1" = 10'



2 BACKFILL PROFILE SECTION C-C  
SCALE: 1" = 10'



3 BACKFILL PROFILE SECTION D-D  
SCALE: 1" = 10'



UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHT RESERVED ©

**TOWN OF NEWBURGH  
RECREATION  
CENTER**

CHADWICK LAKE PARK  
1702 ROUTE 300  
NEWBURGH, N.Y. 12550

**STRUCTURAL  
EXCAVATION &  
BACKFILL PROFILES**

REVISIONS		
NO.	DESCRIPTION	DATE
△	ADDENDUM #1	3-6-2024

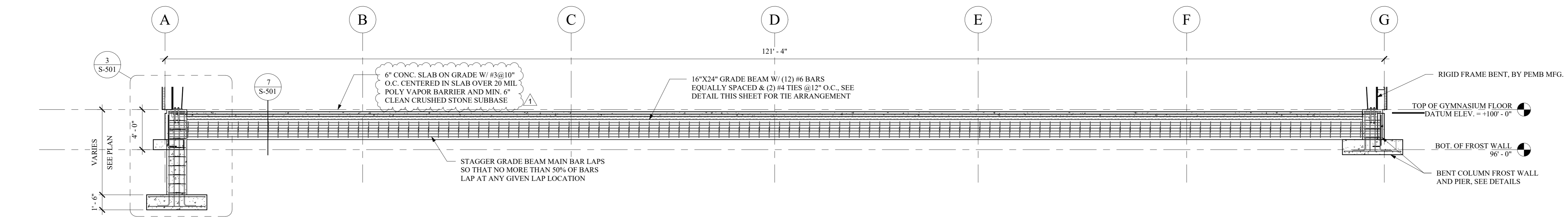
ISSUED DATE: 28 February, 2024  
DESIGN BY: WRB  
DRAWN BY: WRB  
CHECKED BY: JSS  
REVIEWED BY: ML

SHEET NO.

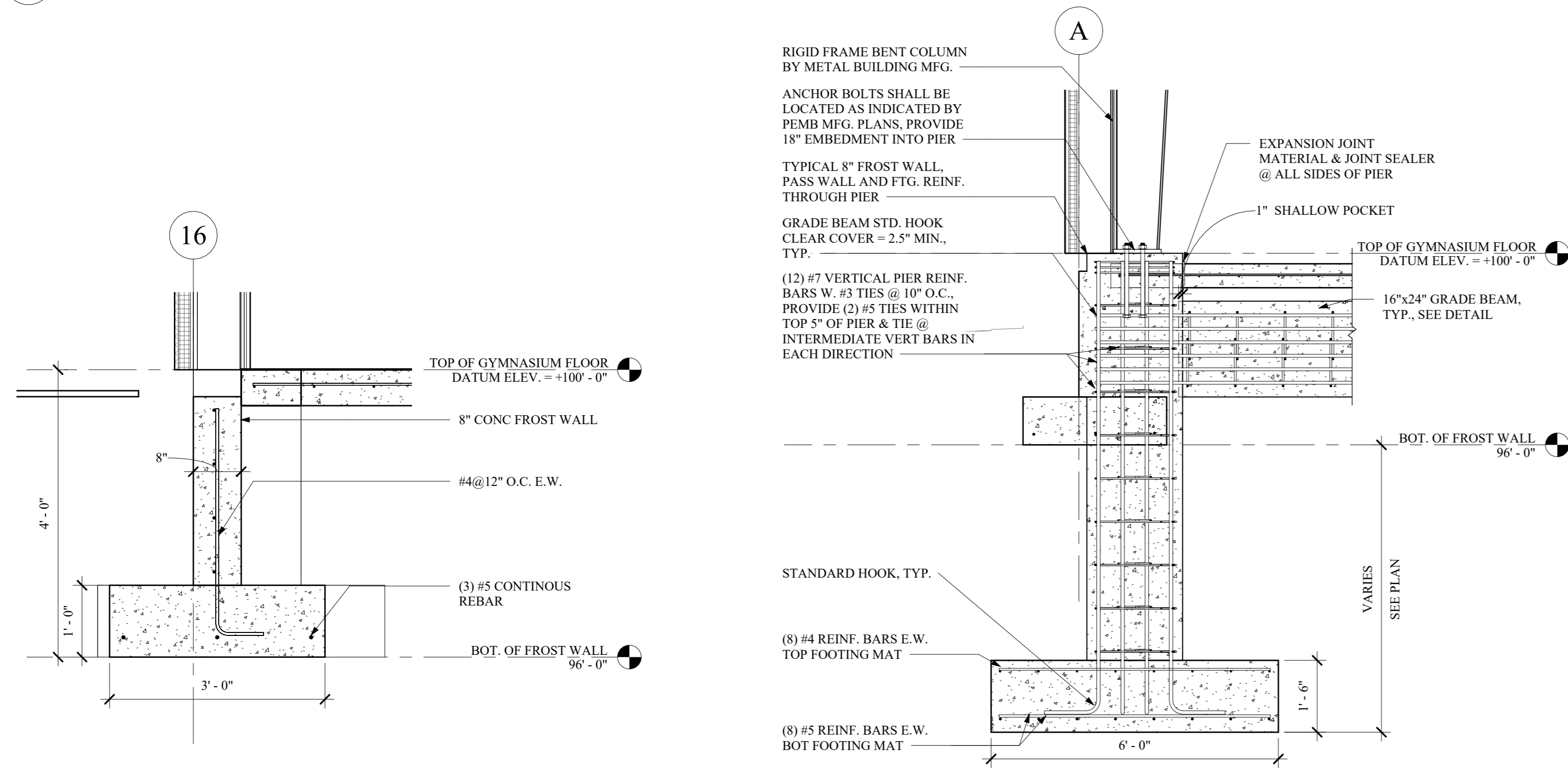
**S-203**

PROJECT # 21-135 PHASE #

T:\2021\21-135 Newburgh Recreation Center\Drafting\REV\STRUCTURAL\21-135 Newburgh Recreation Center - CUT\_FIL PROFILES WITH STRUCTURAL OVERLAY.dwg, S-203, 3/5/2024 1:48:52 PM

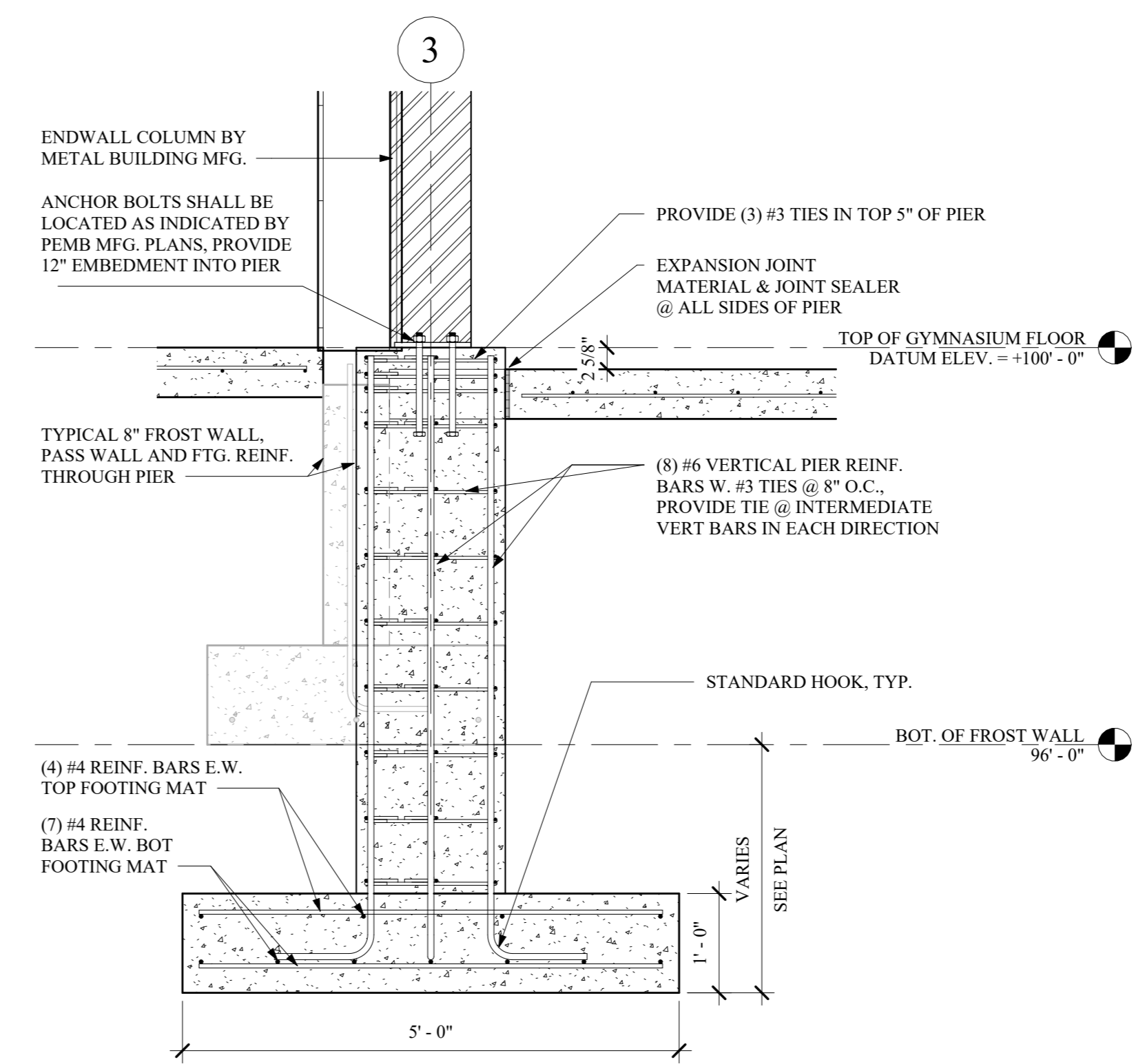


**1 TYPICAL FOUNDATION SECTION @ BENT FRAME**  
 S-501 SCALE: 3/16" = 1'-0"

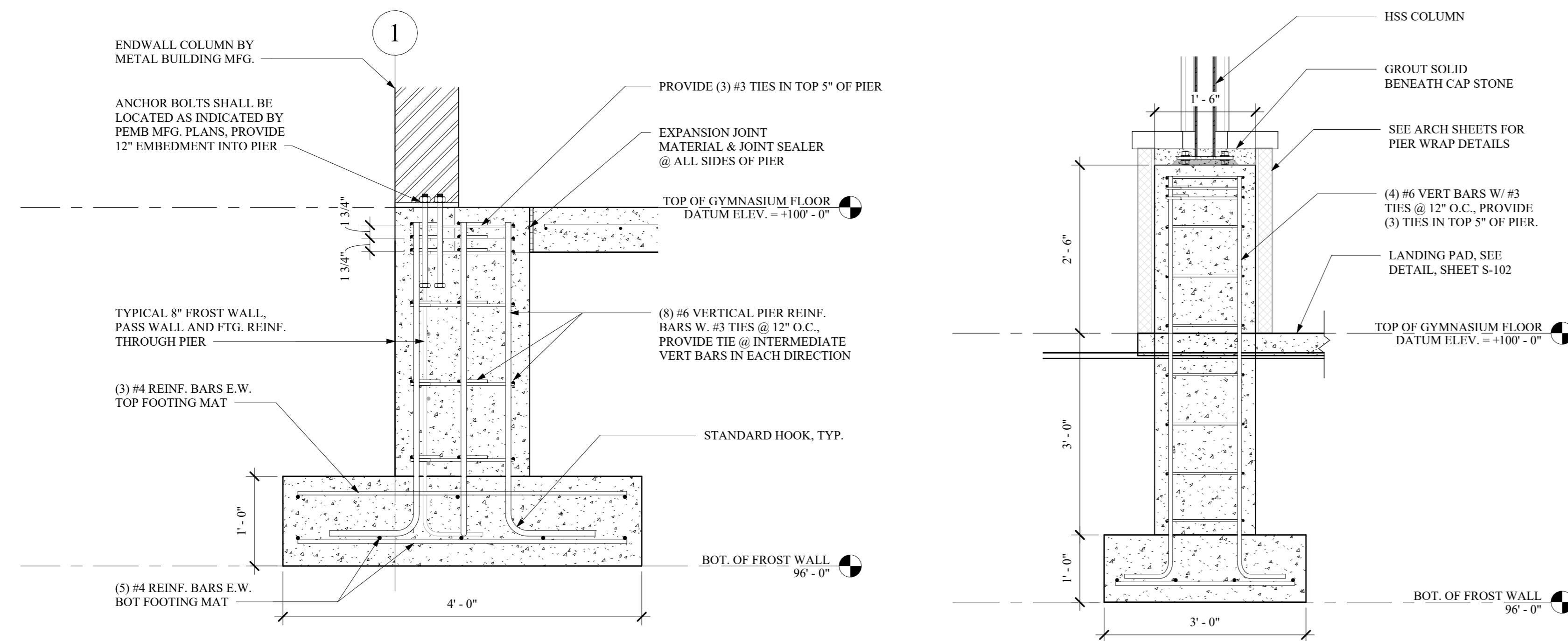


**2 FROST WALL DETAIL (TYP.)**  
 S-501 SCALE: 3/4" = 1'-0"

**3 F1 - BENT COLUMN FOOTING AND PIER DETAIL**  
 S-501 SCALE: 1/2" = 1'-0"

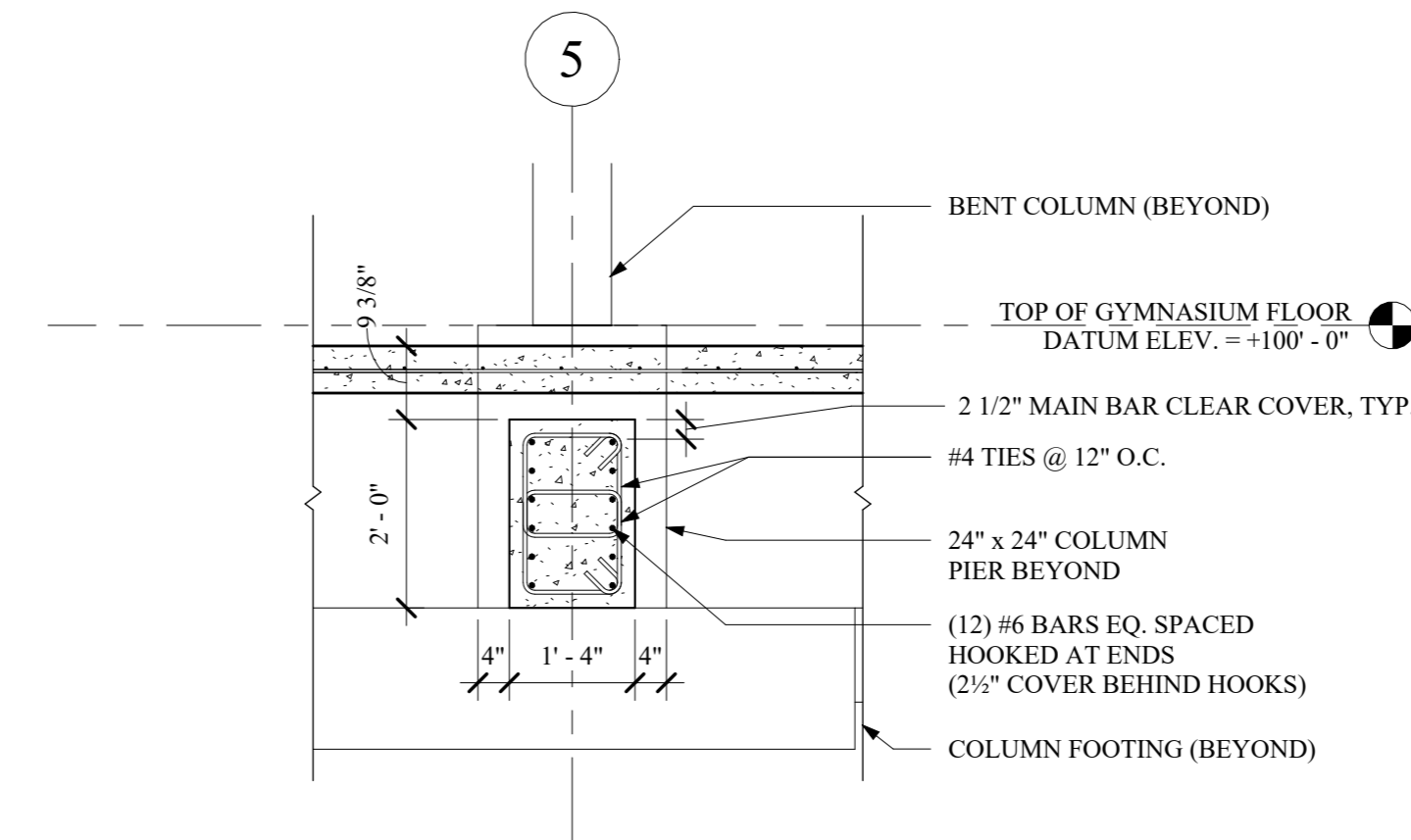


**4 F2 - ENDWALL GYM COL. PIER DETAIL**  
 S-501 SCALE: 3/4" = 1'-0"



**5 F3 - COLUMN PIER AND FOOTING DETAIL**  
 S-501 SCALE: 1" = 1'-0"

**6 F4 - ENTRYWAY PIER DETAIL**  
 S-501 SCALE: 3/4" = 1'-0"



**7 GRADE BEAM DETAIL**  
 S-501 SCALE: 1/2" = 1'-0"

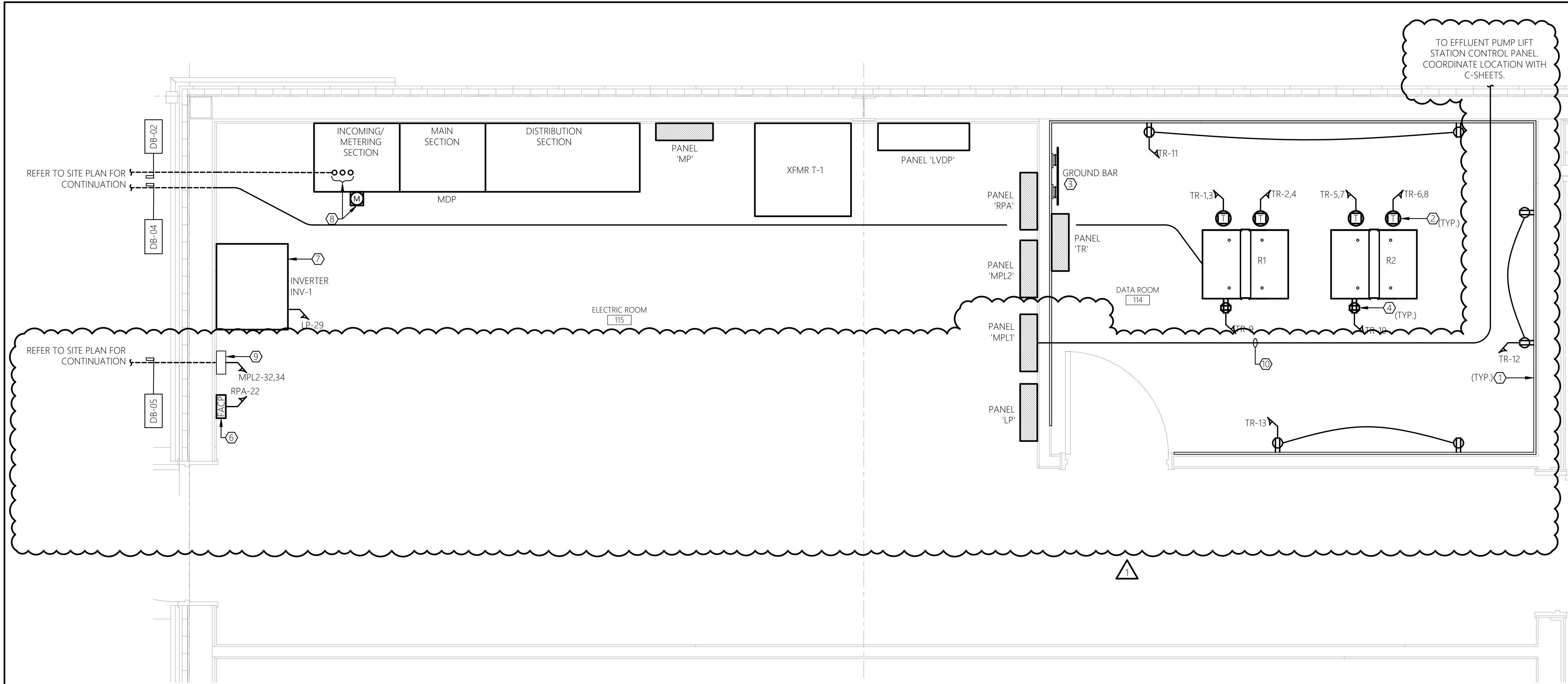
**FOUNDATION DETAILS**

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	3-6-2024

ISSUED DATE: 28 FEB, 2024  
 DESIGNED BY: WRB  
 DRAWN BY: WRB  
 CHECKED BY: JSS  
 REVIEWED BY: ML

SHEET NO.

# S-501



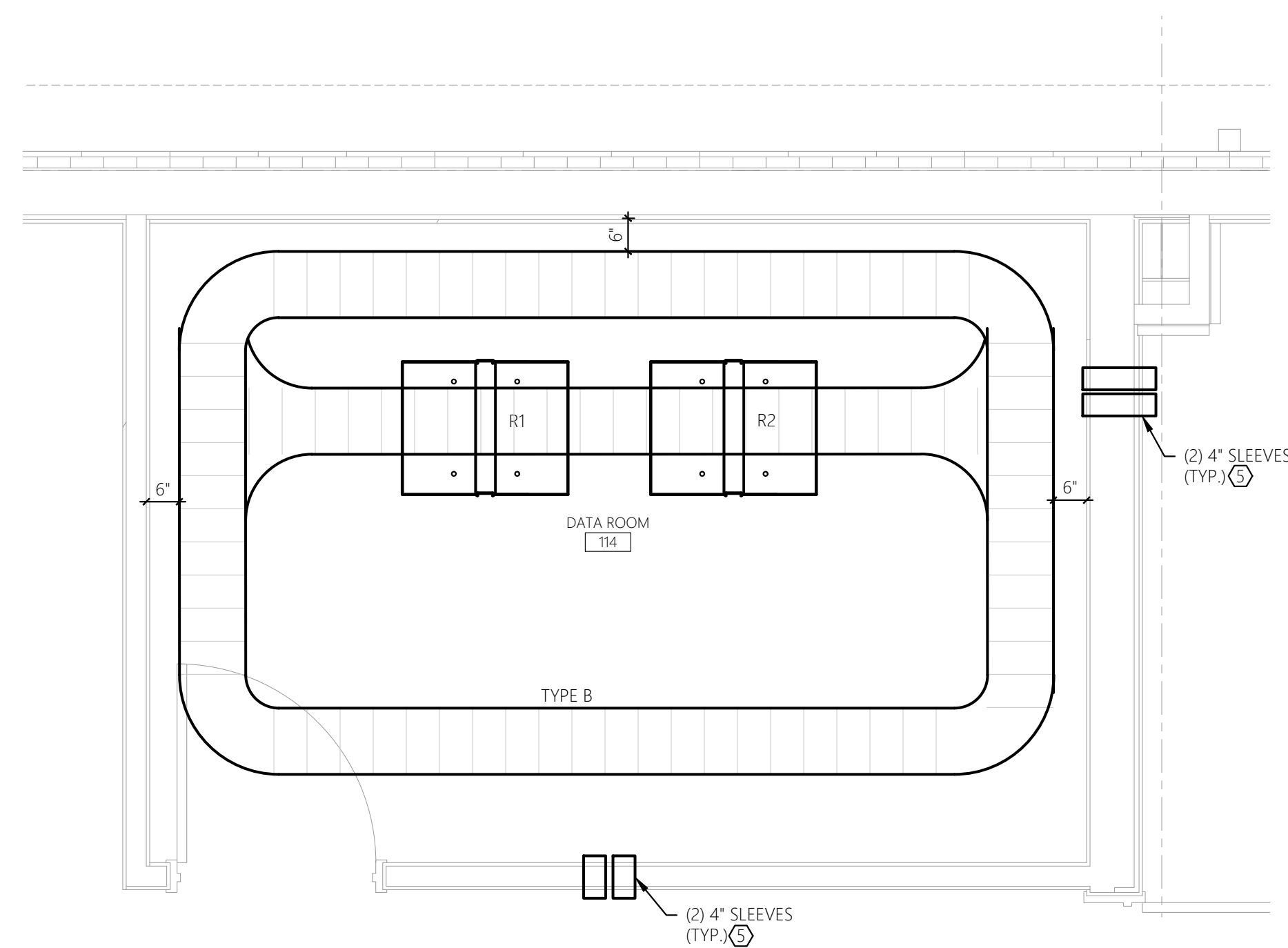
**GENERAL SHEET NOTES:**

- REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
- REFER TO E-500 FOR RACEWAY SCHEDULE FOR APPROVED RACEWAY USAGE.
- REFER TO E-503/E-504 FOR PANEL SCHEDULES FOR CIRCUIT CHARACTERISTICS.
- REFER TO E-500 FOR BRANCH CIRCUIT SCHEDULE (BCS) FOR CIRCUIT REQUIREMENTS.
- ALL CONDUCTORS SHALL BE THHN/THWN-2.
- INSTALLATION SHALL BE PER NECA1 GUIDELINES.
- PROVIDE HANGERS & SUPPORTS AS REQUIRED.
- PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
- PROVIDE SUBMITTAL DATA FOR ALL PROPOSED HARDWARE, DEVICES, CONDUIT, HANGERS, ETC. FOR ENGINEER REVIEW & APPROVAL PRIOR TO ORDERING.
- ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.

**SHEET KEY NOTES:**

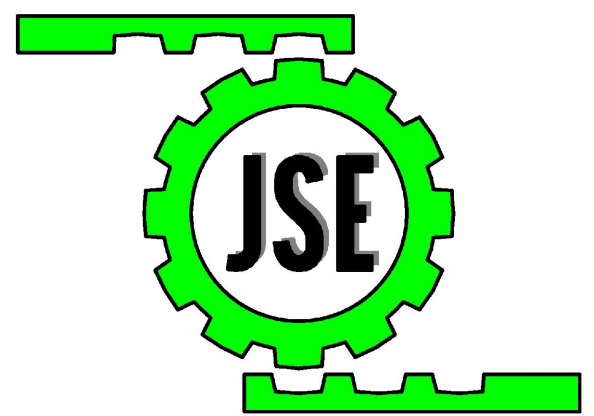
- PROVIDE 4'X 8'X 3/4" BCX, FIRE RATED PLYWOOD BACKBOARDS ON EACH WALL. PAINT WITH ACRYLIC, INTERIOR, FIRE RETARDANT PAINT (2 COATS- COORDINATE COLOR WITH OWNER).
- PROVIDE (2) DEDICATED L6-30R RECEPTACLES WITH TWIST LOCK ON TOP OF EACH RACK. COORDINATE LOCATION IN FIELD WITH OWNER IT REPRESENTATIVE.
- PROVIDE GROUND BAR IN ACCORDANCE WITH DETAIL, SHEET E-602, COORDINATE GROUND BAR LOCATION IN FIELD PRIOR TO ROUGH-IN.
- PROVIDE DEDICATED 120V, 20A CIRCUIT AND QUAD RECEPTACLE FIXED TO CABLE TRAY TO RECEIVE RACK POWER STRIP. COORDINATE LOCATION IN FIELD WITH OWNER IT REPRESENTATIVE.
- PROVIDE 4" HILTI SPEED SLEEVES (OR APPROVED EQUAL). REFER TO DETAIL, SHEET E602, FOR ADDITIONAL INFORMATION.
- COORDINATE FIRE ALARM CONTROL PANEL LOCATION IN FIELD WITH OWNER AND FIRE ALARM VENDOR PRIOR TO ROUGH-IN.
- REFER TO GYM EMERGENCY LIGHTING RISER DIAGRAM, SHEET E-605 AND LIGHTING INVERTER SCHEDULE, SHEET E-502 FOR ADDITIONAL INVERTER INFORMATION.
- TURN UP UNDERGROUND SERVICE CONDUITS INTO INCOMING/METERING SECTION OF SWITCHBOARD MDP. COORDINATE ELECTRICAL SERVICE ENTRANCE AND ALL REQUIREMENTS WITH CENTRAL HUDSON. PROVIDE SERVICE ENTRANCE IN ACCORDANCE WITH UTILITY STANDARDS PERTAINING TO PAD-MOUNTED TRANSFORMER, CT CABINET, METERING, HOT VS. COLD SEQUENCE, UNDERGROUND PRIMARY CONDUCTORS, BACKFILL, TRENCHING, ETC.
- COORDINATE CISTERN HOA/CONTROL PANEL LOCATION IN FIELD WITH OWNER AND C-SHEETS. REFER TO SPECIFICATION 333300 AND RISER DIAGRAM, SHEET E-702, FOR ADDITIONAL INFORMATION.
- REFER POWER CIRCUIT TO EFFLUENT PUMP LIFT STATION CONTROL PANEL. COORDINATE CONTROL PANEL LOCATION WITH C-SHEETS. FEEDER ROUTE SHOWN IS DIAGRAMMATIC. COORDINATE PATH IN FIELD WITH C-SHEETS PRIOR TO ROUGH-IN. REFER TO RISER DIAGRAM, SHEET E-702 FOR FEEDER SIZE/CHARACTERISTICS.

**1 ELECTRICAL ENLARGED POWER PLAN**  
SCALE: 1/2" = 1'-0"



**2 ENLARGED SYSTEMS PLAN**  
SCALE: 1/2" = 1'-0"

BID SET



**JADE STONE ENGINEERING**  
mechanical, electrical, plumbing



ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHTS RESERVED ©

**NEW RECREATION CENTER**  
**TOWN OF NEWBURGH**

CHADWICK LAKE PARK  
1702 NY-300, NEWBURGH, NY 12550

**ELECTRICAL ENLARGED PLANS**

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 1	3/6/2024

ISSUED DATE: 28 FEBRUARY, 2024  
DESIGNED BY: BCW  
DRAWN BY: SAG  
CHECKED BY: BCW  
REVIEWED BY: BCW

SHEET NO.

**E-400**

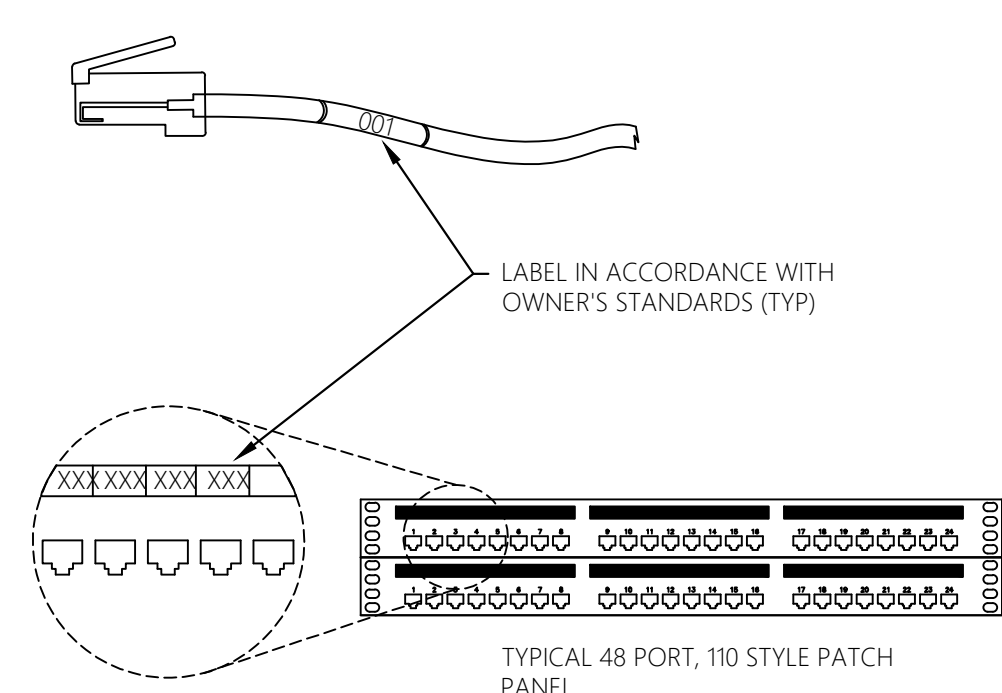
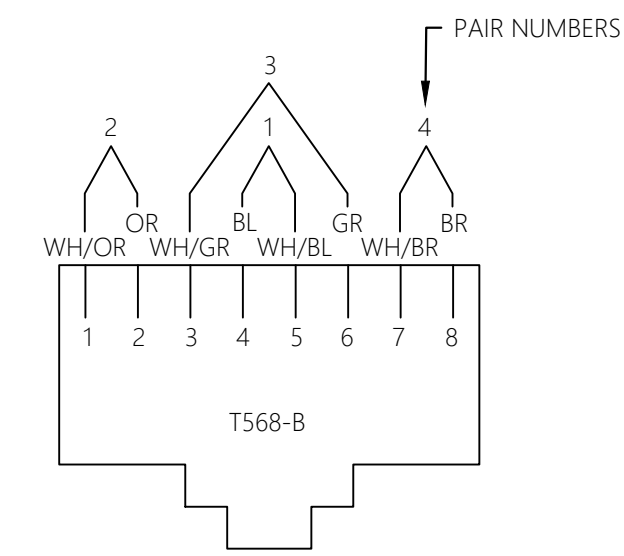
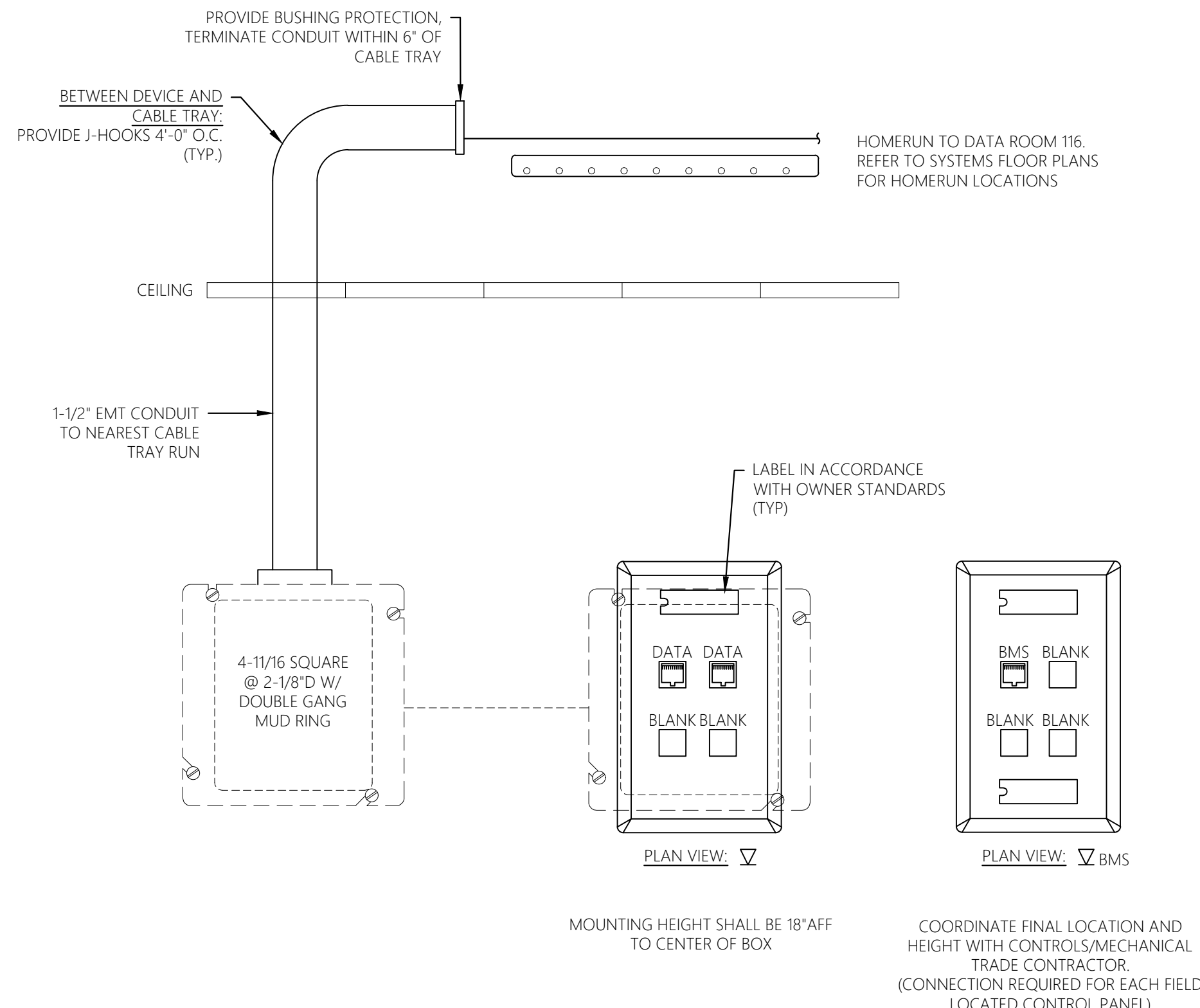
PROJECT # 21-135 PHASE #





HORIZONTAL UTP CABLING SCHEDULE																			
	CABLE COLOR				UTP TYPE				INSULATION				RJ45 JACK COLOR		CONFIG.		HOMERUN LOCATION		
	BLUE	WHITE	PURPLE	RED	CAT 5e	CAT 6	CAT 6a	CAT 3 4-PR	RG-6	PLENUM	RISER	GENERAL	RED	BLACK	WHITE	BLUE		GREEN	T568A
DATA					●	●				●							●	●	DATA ROOM 116
BMS		●								●							●	●	DATA ROOM 116
WAP	●									●							●	●	DATA ROOM 116
CAMERA				●						●							●	●	DATA ROOM 116

GENERAL SCHEDULE NOTES:  
 1. PROVIDE A DEDICATED CABLE FOR EACH JACK IDENTIFIED ON THE PLANS/DETAILS.  
 2. PROVIDE 10' OF CABLE SLACK AT THE TR LOCATION AND 3-1/2' IN THE SUSPENDED CEILING ABOVE THE DROP.



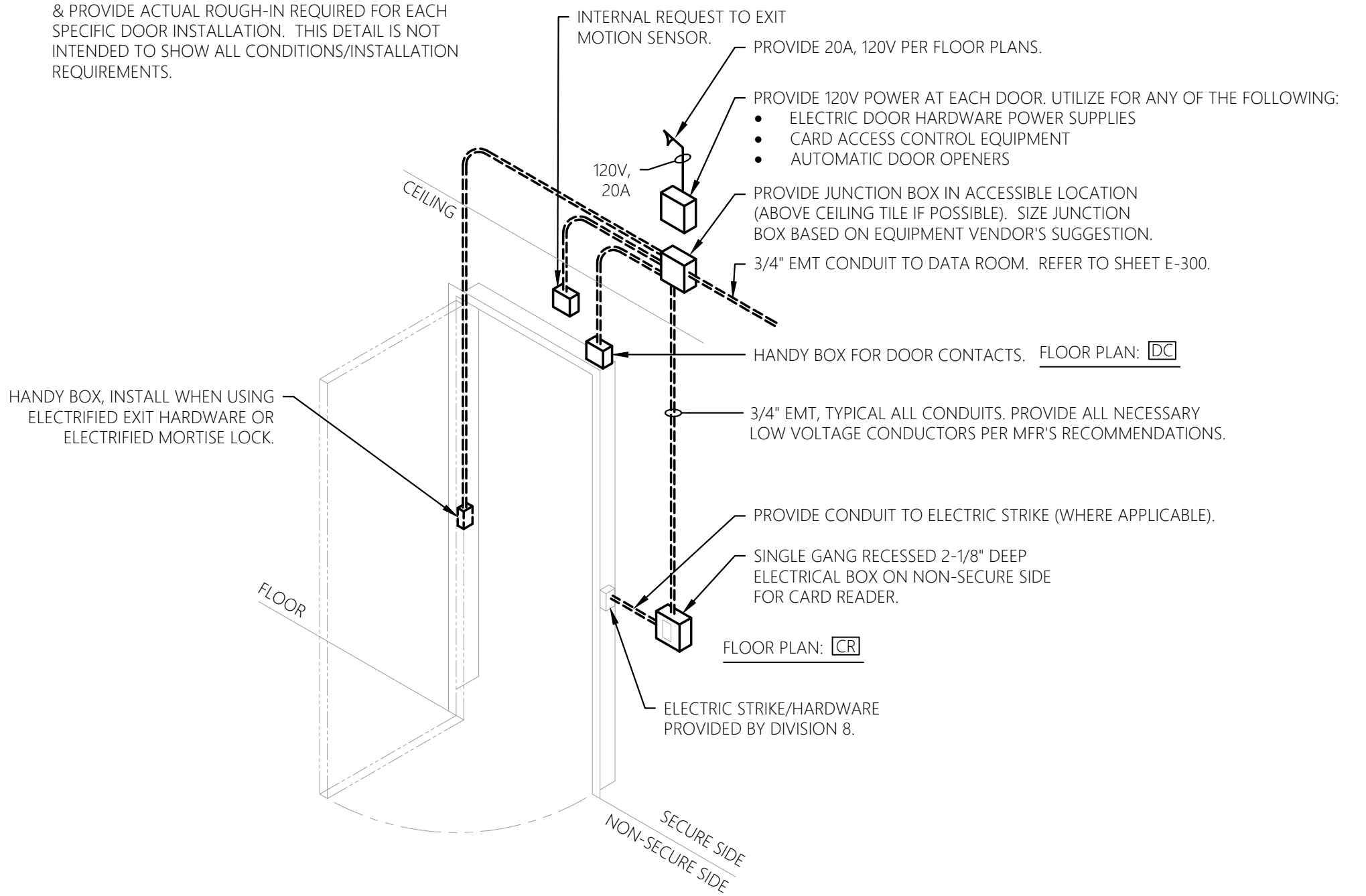
**1 T568-B PUNCHDOWN & LABELING REQUIREMENTS**  
SCALE: NTS

**3 CEILING AREAS WIRELESS ACCESS POINT AND CAMERA ROUGH-IN**  
SCALE: NOT TO SCALE

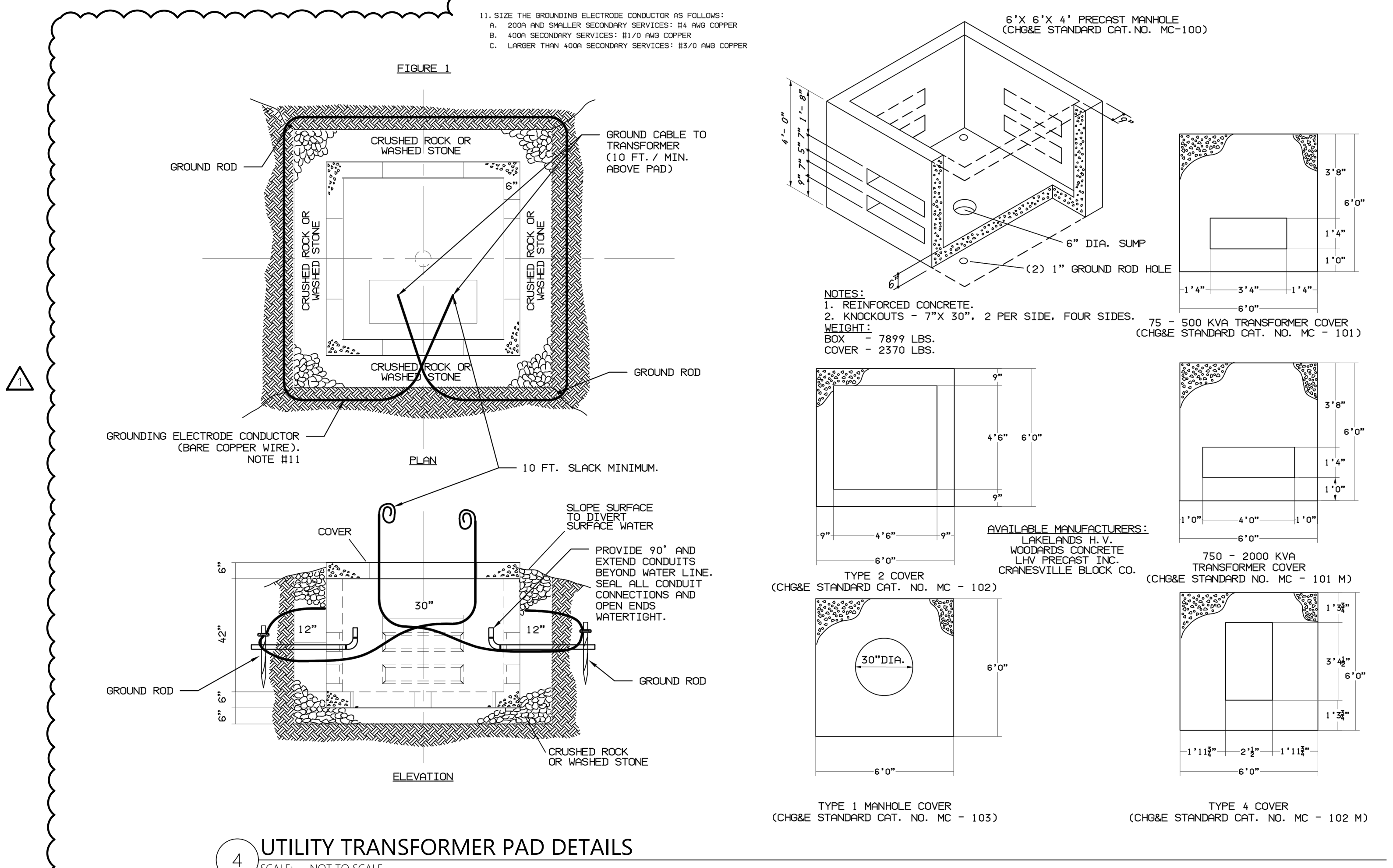
- NOTES:
- THE CUSTOMER WILL NORMALLY PROVIDE THE PWD FOR THREE PHASE PWD-MOUNTED TRANSFORMERS. THE STANDARD IS INTENDED AS A GUIDE FOR PROVIDING THE SPECIFICATIONS FOR PWD INSTALLATIONS APPLICABLE TO PWD-MOUNTED TRANSFORMERS OF VARIOUS KVA SIZE AND DIMENSIONS. THE STANDARD INSTALLATION USES A PRE-CAST CONCRETE BASE AND COVER. THE CONCRETE BASE IS OF UNIFORM SIZE AND UTILIZES COVERS WITH DIFFERENT SIZED WINDOW OPENINGS TO ACCOMMODATE THE KVA SIZE OF THE PWD-MOUNTED TRANSFORMER. DETAILED SPECIFICATIONS AND INSTALLATION REQUIREMENTS ARE PROVIDED IN PAGES 1 TO 3 OF THIS STANDARD.
  - THE SIZES AND REAR OF THE PWD SHALL BE A MINIMUM OF TEN (10) FEET FROM THE WINDOWS AND FIRE ESCAPES AND A MINIMUM OF THREE (3) FEET (TEN (10) FEET PREFERRED) FROM ALL BUILDINGS, FENCES, OR OTHER OBSTRUCTIONS WHICH WILL THREATEN THE FREE FLOW OF COOLING AIR AROUND THE TRANSFORMER. THE FRONT OF THE PWD (WINDOW SIDE) SHALL HAVE A MINIMUM OF TEN (10) FEET OF UNOBSTRUCTED WORKING SPACE.
  - ACCESS TO PWD AREA BY VEHICLE MUST BE POSSIBLE AT ALL TIMES TO INSURE PROPER OPERATION AND MAINTENANCE FUNCTIONS.
  - STONE FOR BASE AND SIDES OF THE BOX PAD SHALL BE 3/4\"/>

**2 DATA WIRING DEVICE CONFIGURATIONS**  
SCALE: NTS

CARD ACCESS CONTROL PROJECT REQUIREMENTS:  
 T. GENERIC ROUGH-IN REQUIREMENTS ARE ILLUSTRATED IN THE ADJACENT DETAIL. CONTRACTOR SHALL COORDINATE WITH THE HARDWARE SYSTEMS SUBMITTALS & PROVIDE ACTUAL ROUGH-IN REQUIRED FOR EACH SPECIFIC DOOR INSTALLATION. THIS DETAIL IS NOT INTENDED TO SHOW ALL CONDITIONS/INSTALLATION REQUIREMENTS.



**4 TYPICAL ACCESS CONTROL DOOR ROUGH-IN**  
SCALE: NOT TO SCALE



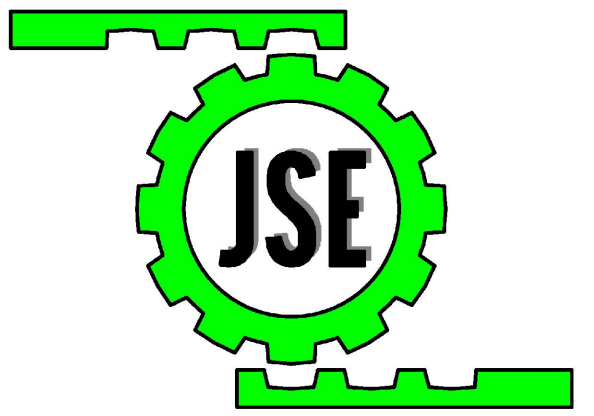
**UTILITY TRANSFORMER PAD DETAILS**  
SCALE: NOT TO SCALE

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 1	3/6/2024

ISSUED DATE: 28 FEBRUARY, 2024  
 DESIGNED BY: BCW  
 DRAWN BY: SAG  
 CHECKED BY: BCW  
 REVIEWED BY: BCW

BID SET



**JADE STONE ENGINEERING**  
mechanical, electrical, plumbing



ALL PRODUCTION & INTELLECTUAL PROPERTY RIGHTS RESERVED ©

**NEW RECREATION CENTER**  
TOWN OF NEWBURGH

CHADWICK LAKE PARK  
1702 NY-300, NEWBURGH, NY 12550

**ELECTRICAL RISER DIAGRAMS**

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 1	3/6/2024

ISSUED DATE:	28 FEBRUARY, 2024
DESIGNED BY:	BCW
DRAWN BY:	JTR
CHECKED BY:	BCW
REVIEWED BY:	BCW

SHEET NO.

**E-702**

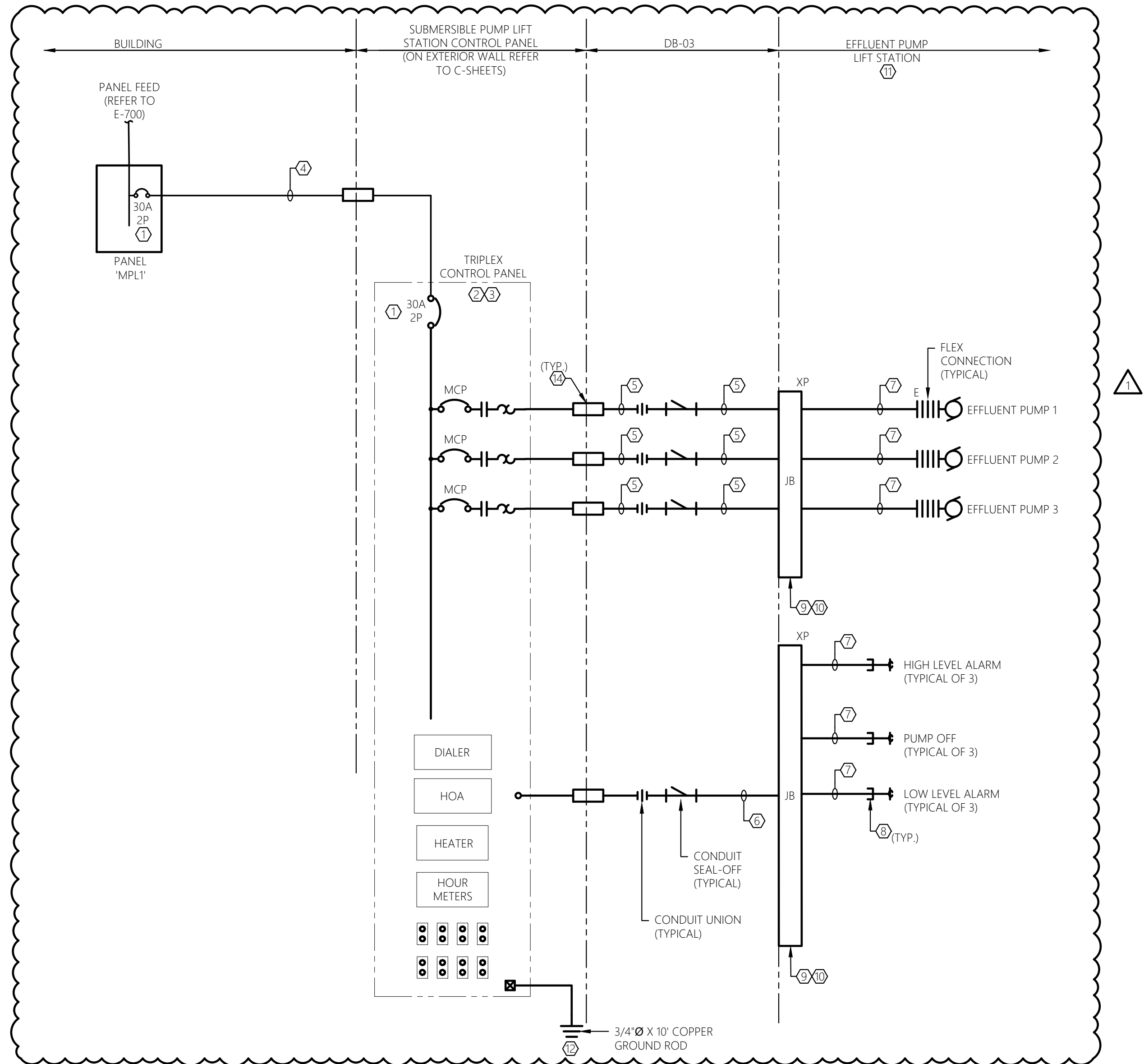
PROJECT # 21-135 PHASE #

GENERAL SHEET NOTES:

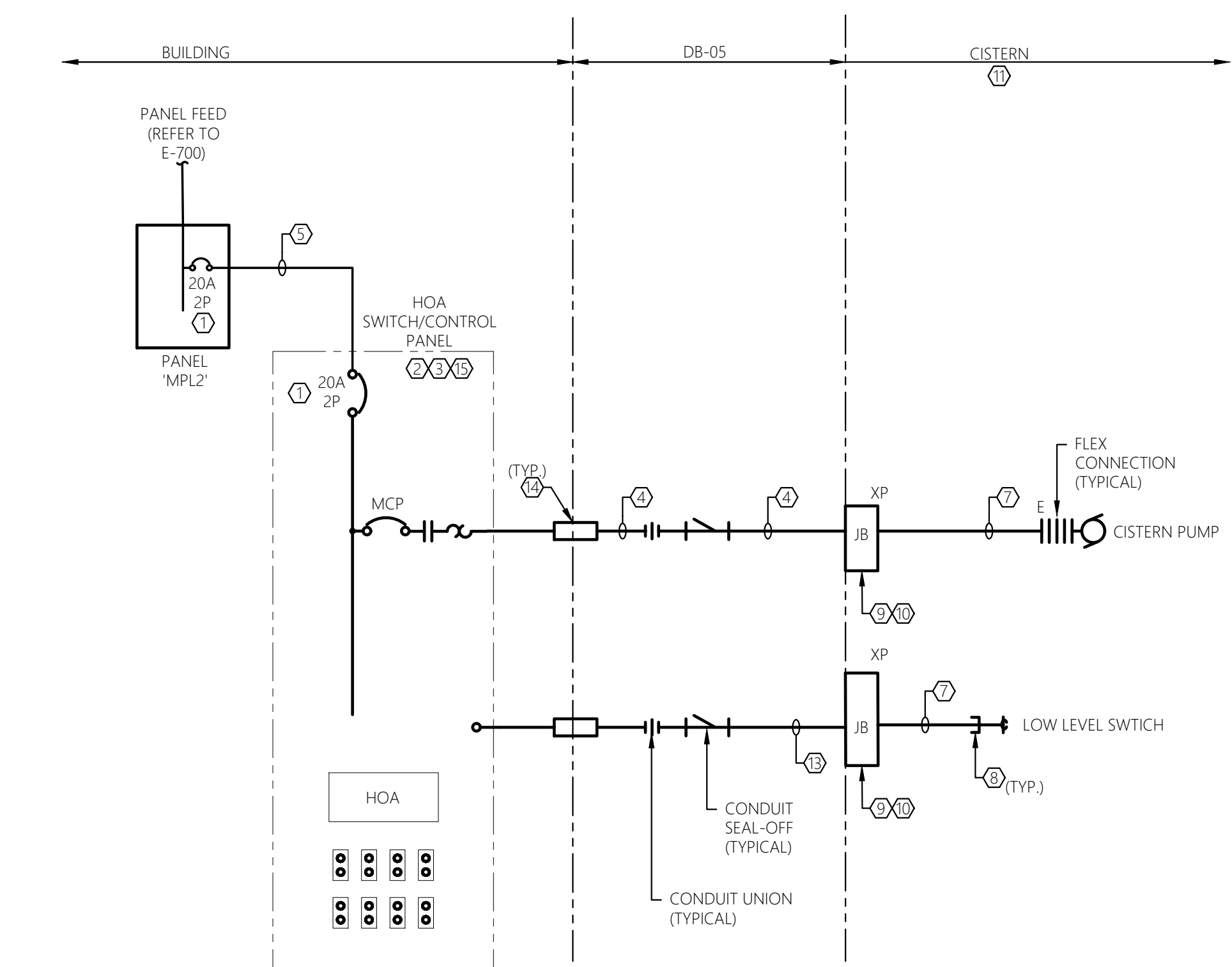
- REFER TO E001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
- REFER TO E500 FOR RACEWAY SCHEDULE FOR APPROVED RACEWAY USAGE.
- REFER TO E500 SERIES FOR PANEL SCHEDULES FOR CIRCUIT CHARACTERISTICS.
- REFER TO E500 FOR BRANCH CIRCUIT SCHEDULE (BCS) FOR CIRCUIT REQUIREMENTS.
- ALL CONDUCTORS SHALL BE THHN/THWN-2.
- INSTALLATION SHALL BE PER NECA1 GUIDELINES.
- PROVIDE HANGERS & SUPPORTS AS REQUIRED.
- PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
- PROVIDE SUBMITTAL DATA FOR ALL PROPOSED HARDWARE, DEVICES, CONDUIT, HANGERS, ETC. FOR ENGINEER REVIEW & APPROVAL PRIOR TO ORDERING.
- ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.

SHEET KEY NOTES:

- DISCONNECT SIZE SHOWN FOR BIDDING PURPOSES ONLY. COORDINATE DISCONNECT SIZE WITH EQUIPMENT MANUFACTURERS RECOMMENDATIONS. COORDINATE CONDUIT/CONDUIT SIZE WITH MANUFACTURERS RECOMMENDED DISCONNECT SIZE. ALL REQUIREMENTS TO BE PER NEC.
- NOT ALL INTERNAL COMPONENTS SHOWN FOR CLARITY. DIAGRAM IS INTENDED TO SHOW ALL REQUIRED FIELD CIRCUITING AND TERMINATIONS REQUIRED UNDER THIS CONTRACT. REFERENCE SUBMITTAL DOCUMENTATION FOR ALL PANEL INTERNAL COMPONENTS. CONTRACTOR TO PROVIDE ADDITIONAL INTERNAL CONTACTS AND JUMPERS PER CONTROL PANEL MANUFACTURERS RECOMMENDATIONS FOR AN OVERALL COMPLETE AND OPERABLE SYSTEM. CLOSELY COORDINATE ALL REQUIREMENTS WITH C-CONTRACT AND OWNER.
- CONTROL PANEL AND ALL INTERNAL COMPONENTS ARE SPECIFIED IN SPECIFICATION 333200. PROVIDE ALL FIELD WIRING BETWEEN DEVICES, TERMINATIONS, AND MOUNTING OF PANEL AS SHOWN/INDICATED. REFER TO SUBMITTAL DOCUMENTATION AND COORDINATE WITH OWNER AND C-DRAWINGS/SPECS TO PROVIDE COMPLETE SYSTEM FIELD CIRCUITRY AND TERMINATIONS.
- PROVIDE (2)#10 & #10G, 3/4".
- PROVIDE (2)#12 & #12G, 3/4".
- PROVIDE (18)#14 & (2)#18STP, 1".
- FACTORY CABLE BY MANUFACTURER. PROVIDE 2" CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE AND RECOMMENDED BY EQUIPMENT MANUFACTURER. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH MANUFACTURER/OWNER.
- PROVIDE CONDUIT BUSHING, FITTING, OR FLEX CONNECTION AS REQUIRED FOR PROPER CONNECTION OF DEVICE. ALL BUSHINGS, FITTINGS, OR FLEX CONNECTIONS TO BE SUITED FOR ENVIRONMENT INSTALLED WITHIN. COORDINATE FINAL REQUIREMENTS WITH C-CONTRACT AND OWNER. TYPICAL.
- CONTRACTOR TO PROVIDE EXPLOSION PROOF (NEMA 7) JUNCTION BOX FOR SPLICING FACTORY CABLE AND EXTENDING FACTORY CABLE AS SHOWN. CONTRACTOR TO FIELD VERIFY AND COORDINATE CONDUIT ARRANGEMENT ENTERING/LEAVING PROPOSED JUNCTION BOX. CONTRACTOR TO ASSUME A 16"W X 16"L X 6"D (INSIDE DIMENSIONS) BOX IS REQUIRED FOR BIDDING PURPOSES. FINAL BOX SIZE TO COMPLY WITH NEC ARTICLE 314. JUNCTION BOX TO BE 'EJB' SERIES AS MANUFACTURED BY EATON OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE NECESSARY TERMINAL STRIPS AND SPLICE KITS WITHIN JUNCTION BOX TO EXTEND FACTORY CABLE AS SHOWN.
- SPACE INTERIOR IS A CLASS I DIVISION I GROUP D SPACE. ALL WIRING METHODS TO COMPLY WITH NEC ARTICLE 501. ALL ELECTRICAL EQUIPMENT AND DEVICES INTERIOR TO THIS SPACE TO BE EXPLOSION PROOF RATED FOR USE IN A CLASS I DIVISION I GROUP D ENVIRONMENT.
- CONTRACTOR TO PROVIDE TWO (2) 3/4" x 10' COPPER GROUND RODS. PROVIDE GROUNDING ELECTRODE FOR CONTROL PANEL PER NEC. GROUND RODS TO BE PLACED AT MINIMUM OF 10 FEET APART. BOND GROUND RODS TOGETHER WITH A LOOPED #4 COPPER CONDUCTOR.
- PROVIDE (6)#14 & (2)#18STP, 1".
- PROVIDE WATERIGHT PENETRATION.
- COORDINATE CISTERN HOA/CONTROL PANEL LOCATION IN FIELD WITH OWNER AND C-SHEETS. REFER TO SPECIFICATION 333200 AND RISER DIAGRAM, SHEET E-702, FOR ADDITIONAL INFORMATION.



**1 SUBMERSIBLE PUMP LIFT STATION RISER DIAGRAM**  
SCALE: NTS



**2 CISTERN PUMP RISER DIAGRAM**  
SCALE: NTS