#### SECTION 00 91 13 ADDENDUM

#### BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES Addendum No. 4 Date Issued: 11/09/2023

The attention of bidders is called to the following changes to the Bid Documents, shall be taken into account in the preparation of Bids, and shall be a part of the Bid Documents

Bidders must acknowledge receipt of this Addendum on page 1 of the Bid Form.

#### PROJECT MANUAL

<u>Section</u>	Description
00 01 10	Division 03 – Concrete, ADD the following Specification Section Name and Title:
	"03 42 00 Precast Concrete Building"
00 11 13	<b><u>REVISE</u></b> the Bid Date in the opening paragraph as follows: "2:00 P.M. local time November 17, 2023".
00 41 16.02	Page 5, Contract No. 1B – Mechanical Construction – Elective Bid Items, <b>DELETE</b> this Table. There are no elective bid items for Contract No. 1B.
00 41 16.03	Page 5, Contract No. 1C – Electrical Construction – Elective Bid Items, <b>DELETE</b> this Table. There are no elective bid items for Contract No. 1C.
00 43 93	00 43 93, DELETE the following item "EEO Policy Statement".
03 42 00	03 42 00, ADD the new section attached 03 42 00.
<u>Sheet No.</u>	Description
G001	Sheet Index, <u>ADD</u> the following sheets:
	"C501 Site Details, C502 Erosion and Sediment Control Details"

A001 <u>ADD</u> the following notes as they pertain to Alternate Bid Item 1:

"<u>CONTRACT NO. 1A - GENERAL CONSTRUCTION - ALTERNATE BID</u> <u>ITEM 1</u>:

- 1. CONSTRUCT THE ELECTRICAL ROOM ADDITION SUPER STRUCTURE (WALLS AND ROOF PANELS) USING REINFORCED PRE-CAST CONCRETE. SEE SPECIFICATION SECTION 03 42 00 -PRECAST CONCRETE BUILDING FOR ADDITIONAL REQUIREMENTS.
- 2. PANELS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- 3. PANEL DESIGN SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF NEW YORK STATE AND ITS AMENDMENTS. DESIGN LOADS SHALL BE AS SPECIFIED IN THE BASE BID DOCUMENT, SHEET S001.
- 4. FABRICATOR AND ERECTOR SHALL BE CURRENTLY CERTIFIED BY THE PRECAST CONCRETE INSTITUTE (PCI). PCI CERTIFICATIONS FOR PLANT AND ERECTOR SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER.
- 5. ALL FOUR WALLS OF ELECTRICAL ROOM ADDITION SHALL BE PRE-CAST CONCRETE. BOTTOM OF PRECAST WALLS SHALL BE AT ELEVATION 633.33', TOP OF WALLS SHALL BE BASED ON PRE-CAST CONCRETE ROOF TO PRE-CAST CONCRETE WALL CONSTRUCTION AS DESIGNED BY ENGINEER OF PRE-CAST SUPERSTRUCTURE.
- 6. TOP OF PRE-CAST CONCRETE ROOF SHALL BE AT ELEVATION 644.67'.
- 7. NORTH WALL SHALL BE DESIGNED, FABRICATED AND INSTALLED TO COMPLY WITH AN APPROVED U.L. RATED THREE HOUR FIRE WALL, AND SHALL BE A MINIMUM THICKNESS OF 8 INCHES.
- 8. FORMED EXTERIOR SURFACE OF EAST, WEST AND SOUTH PRE-CAST CONCRETE WALLS SHALL BE CHOSEN BY OWNER FORM FABRICATOR'S STANDARD FORMED RELIEFS.

- 9. PROVIDE FOR, AND COORDINATE LOCATIONS OF ALL ROOF AND WALL OPENINGS REQUIRED FOR CONTRACT NOS. 1A, 1B AND 1C. WHERE OPENINGS ARE THROUGH A RATED FIRE WALL AND/OR ROOF, SEAL OPENING(S), AND AROUND ITEMS PASSING THROUGH OPENINGS, WITH AN APPROVED SYSTEM THAT MAINTAINS THE SPECIFIED FIRE RATING OF THE PENETRATED WALL AND/OR ROOF.
- 10. CONCRETE OF PRE-CAST WALLS AND ROOF SHALL INCLUDE USE OF AN APPROVED INTEGRAL WATERPROOFING ADDITIVE. WALL CONCRETE SHALL INCLUDE AN APPROVED AIR ENTRAINMENT ADDITIVE RESULTING IN 6%+-1% ENTRAINED AIR.
- 11. ALL JOINTS BETWEEN PRE-CAST CONCRETE SECTIONS OF WALL PANELS, WALL PANELS AND ROOF, AND WALL PANELS AND TOP OF SUPPORTING FOUNDATION SHALL BE INSTALLED WITH A CONCEALED, CONTINUOUS ADHESIVE BACKED WATERSTOP IN A BED OF HYDROPHILIC SEALANT OR AN APPROVED EQUIVALENT "PERMANENT" WATERSTOP SYSTEM. AT INTERIOR AND EXTERIOR SURFACES OF WALLS AND ROOF, JOINTS SHALL BE CONSTRUCTED WITH AN APPROVED CONTINUOUS CLOSED CELL FOAM BACKER ROD AND SEALANT.
- 12. SOUTH, EAST AND WEST PRE-CAST CONCRETE WALLS SHALL BE FABRICATED WITH AN INTEGRAL PIGMENT COLORING AND EXTERIOR FACE TO MATCH CONCRETE BLOCK COLOR AND PATTERN OF THE EXISTING WATER TREATMENT BUILDING'S EXTERIOR WALL. CONTRACTOR SHALL PROVIDE A 4FT. X 4 FT. SAMPLE WALL MOCK-UP FOR ARCHITECT AND OWNER REVIEW AND APPROVAL PRIOR TO WALL FABRICATION FOR THE PROJECT.
- 13. INTERIOR FACE OF PRE-CAST CONCRETE WALLS AND TOP/BOTTOM SURFACES OF PRE-CAST CONCRETE ROOF SHALL HAVE AN "AS CAST" FINISH.
- 14. THIS ALTERNATE BID ITEM 1 SHALL INCLUDE THE ROOFING MEMBRANE, METAL COPING, WOOD BLOCKING, INSULATION, METAL STUD WALL FRAMING, GYPSUM WALL BOARD, AND ALL DOOR AND DOOR HARDWARE CONSTRUCTION AS SPECIFIED UNDER WORK OF THE BASE BID.

	15. WOOD BLOCKING THICKNESS AT ROOF SHALL BE AS REQUIRED FOR COPING AND ROOF INSULATION BACK-UP.
	16. ALL PANEL CONNECTING METAL HARDWARE AND EMBEDDED ITEMS SHALL BE CORROSION RESISTANT HOT DIP GALVANIZED AFTER FABRICATION AND/OR STAINLESS STEEL."
A102	A102, REPLACE this drawing with the attached A102 with Addendum No. 4 revisions.
A302	A302, REPLACE this drawing with the attached A302 with Addendum No. 4 revisions.
S001	S001, REPLACE this drawing with the attached S001 with Addendum No. 4 revisions.
S100	S100, REPLACE this drawing with the attached S100 with Addendum No. 4 revisions.
S101	S101, REPLACE this drawing with the attached S101 with Addendum No. 4 revisions.
S300	S300, REPLACE this drawing with the attached S300 with Addendum No. 4 revisions.
S301	S301, REPLACE this drawing with the attached S301 with Addendum No. 4 revisions.
S500	S500, REPLACE this drawing with the attached S500 with Addendum No. 4 revisions.
S501	S501, REPLACE this drawing with the attached S501 with Addendum No. 4 revisions.
S502	S502, REPLACE this drawing with the attached S502 with Addendum No. 4 revisions.
S503	S503, REPLACE this drawing with the attached S503 with Addendum No. 4 revisions.
S504	S504, REPLACE this drawing with the attached S504 with Addendum No. 4 revisions.

ADDENDUM 00 91 13-4 11.23 677.006.001

"I. PENETRATIONS THROUGH THE NORTH WALL TO THE EXISTING PUMP ROOM TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."         E103       "Electric Room Addition Floor Plan ADD General Note 2 as follows:         "2. PENETRATIONS THROUGH THE EAST AND WEST FOUNDATIONS TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."         E103       "Electric Room Addition Floor Plan ADD General Note 3 as follows:         "3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."         E103       "3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."         E104       "1. Lighting Plan – Pump Room ADD General Note 1 as follows: "1. Lighting Plan – Pump Room ADD General Note 1 as follows: "1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY, CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."         Q1       Are we to assume that the GC is responsible for work shown on A, S, and C drawings?         A1       This listing of contract responsibile for M drawings and Electrical the E drawings?         A1       This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.         Q2       Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?	E103	Electric Room Addition Floor Plan ADD General Note 1 as follows:
E103Electric Room Addition Floor Plan ADD General Note 2 as follows: "2. PENETRATIONS THROUGH THE EAST AND WEST FOUNDATIONS TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."E103Electric Room Addition Floor Plan ADD General Note 3 as follows: "3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACT OR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."E103"3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACT NO. 1A."E104"1. Lighting Plan – Pump Room ADD General Note 1 as follows: "1. Lighting MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."Q1Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?Q2Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?Q2Please define spec section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.		"1. PENETRATIONS THROUGH THE NORTH WALL TO THE EXISTING PUMP ROOM TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."
<ul> <li>2. PENETRATIONS THROUGH THE EAST AND WEST FOUNDATIONS TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."</li> <li>Electric Room Addition Floor Plan <u>ADD</u> General Note 3 as follows:</li> <li>"3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."</li> <li>Lighting Plan – Pump Room <u>ADD</u> General Note 1 as follows:</li> <li>"1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."</li> <li><i>BIDDER QUESTIONS</i></li> <li><i>Q1</i> Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?</li> <li>A1 This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.</li> <li><i>Q2 Please define spec section 02 65 00. No existing petroleum tank is shown on C</i> drawings to be removed?</li> <li>A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.</li> </ul>	E102	Electric Room Addition Floor Plan ADD General Note 2 as follows:
Electric Room Addition Floor Plan ADD General Note 3 as follows:E103"3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."E104Lighting Plan – Pump Room ADD General Note 1 as follows: "1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."Q1Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?A1This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.Q2Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?A2Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.	E105	"2. PENETRATIONS THROUGH THE EAST AND WEST FOUNDATIONS TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."
E105       "3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."         E104       Lighting Plan – Pump Room <u>ADD</u> General Note 1 as follows:         "1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."         BIDDER QUESTIONS         Q1       Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?         A1       This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.         Q2       Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?         A2       Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.	E102	Electric Room Addition Floor Plan ADD General Note 3 as follows:
E104Lighting Plan – Pump Room ADD General Note 1 as follows: "1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."Q1Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?Q1Are we to assume that the GC is responsible for M drawings and Electrical the E drawings?Q2Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?Q2Please define spec section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.	E103	"3. PENETRATIONS THROUGH THE SLAB TO BE PROVIDED BY CONTRACT NO. 1A. CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH CONTRACT NO. 1A."
<ul> <li>"1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."</li> <li>BIDDER QUESTIONS</li> <li>Q1 Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?</li> <li>A1 This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.</li> <li>Q2 Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?</li> <li>A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.</li> </ul>	E104	Lighting Plan – Pump Room <u>ADD</u> General Note 1 as follows:
BIDDER QUESTIONSQ1Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?A1This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.Q2Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?A2Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.	E104	"1. LIGHTING MAY NEED TO BE ADJUSTED TO ALLOW CONDUITS TO BE ROUTED OVERHEAD TO PUMPS AND TO CONNECT TO EXISTING CONDUIT LOCATIONS. CONTRACTOR TO ADJUST LIGHTING LOCATIONS AS NECESSARY. CONDUIT SHALL NOT BE INSTALLED IN A WAY THAT IT CONFLICTS WITH LIGHT OPERATION AND MAINTENANCE."
<ul> <li>Q1 Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?</li> <li>A1 This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.</li> <li>Q2 Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?</li> <li>A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.</li> </ul>		BIDDER QUESTIONS
<ul> <li>A1 This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.</li> <li>Q2 Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?</li> <li>A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.</li> </ul>	Q1	Are we to assume that the GC is responsible for work shown on A, S, and C drawings with Mechanical responsible for M drawings and Electrical the E drawings?
<ul> <li>Q2 Please define spec section 02 65 00. No existing petroleum tank is shown on C drawings to be removed?</li> <li>A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.</li> </ul>	A1	This listing of contract responsibility is correct. Refer to Payment Procedures, Section 01 29 00.
A2 Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.	<i>Q2</i>	Please define spec section 02 65 00. No existing petroleum tank is shown on $C$ drawings to be removed?
	A2	Spec Section 02 65 00 is the responsibility of Contract No. 1C. This is for removal of the generator diesel fuel.
<ul> <li><i>Q3</i> Please provide anticipated delivery dates for the owner furnished items.</li> <li>A3 Generator - 10/24/2024, ATS - 10/10/2024, Transformer - 11/22/2024</li> </ul>	Q3 A3	Please provide anticipated delivery dates for the owner furnished items. Generator – 10/24/2024, ATS – 10/10/2024, Transformer – 11/22/2024

Q4 Is the transformer testing referenced in Paragraph 3.02 – Main Transformer Installation Services Paragraph B to be provided by the electrical contractor or are these factory tests?

A4 These tests are required by Contract No. 1C.

END OF ADDENDUM

BARTON & LOGUIDICE, D.P.C.

TIEW Bol

Timothy W. Bolan, P.E. Vice President

/jms Attachments

#### ADDENDUM

BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES 677.006.001

### EMAIL TRANSMISSION – RETURN RECEIPT REQUESTED

PLEASE ACKNOWLEDGE BY RETURN EMAIL (jfelber@bartonandloguidice.com)

Date:

Title: \_\_\_\_\_

Company: \_\_\_\_\_

ADDENDUM 00 91 13-6 11.23 677.006.001

#### SECTION 03 42 00

#### PRECAST CONCRETE BUILDING

#### PART 1 - GENERAL

#### 1.01 DESCRIPTION

- A. The work includes the supply and installation of a Precast Concrete Building with appurtenances, complete in-place, at the location, and in accordance with the Contract Drawings, and as specified herein.
- B. The manufacturer of the building shall be an organization specializing in the manufacture of precast concrete buildings for at least 5 years.
- C. The manufacturer (fabricator) and erector of the building shall be a currently certified PCI Plant and erector, category A1.

#### 1.02 SUBMITTAL

- A. SHOP DRAWINGS
  - 1. Shop Drawings and Design Calculations shall be signed and sealed by a Professional Engineer currently registered in New York State.
  - 2. Before starting fabrication, submit Shop Drawings showing layout, dimensions, anchorages, connections and connection accessories.
  - 3. Submit current fabricator and erector PCI certification and a list of 10 projects (minimum) completed within the last five years.
- B. WARRANTY
  - 1. Precast concrete manufacturer shall guarantee precast concrete products against defects in materials and workmanship for a period of 1 year after delivery and erection.

#### PART 2 - PRODUCTS

#### 2.01 PRECAST CONCRETE

- A. The structural design for the Precast Concrete Building shall be performed in accordance with the current Building Code of New York State and its amendments. Design loads shall be in accordance with design load information provided on the Contract Drawings.
- B. Concrete shall have a 28-day strength of 5000 PSI. Building design and construction shall comply with the latest editions of ACI 318 Building Code Requirements for Structural Concrete and ACI 301 Specifications for Structural Concrete. See Contract Drawings for additional requirements.

- C. Concrete shall include air entraining admixture conforming to ASTM C260, and shall be added to produce 6% air by volume +/- 1%.
- D. Reinforcing steel shall be in with the Concrete Reinforcing Institute Manual of standard practice. Reinforcing steel shall be in conformance with ASTM A615 grade 60 and welded wire fabric shall be ASTM A185.
- E. Unless specified elsewhere in the Contract Documents, walls shall be a min 4 3/4" thick. Building shall be leak proof and corrosion proof with a 2 hour Underwriters Laboratory (U.L.) fire rating. Wall and roof panels shall have a uniform interior and exterior finish as specified on the Contract Drawings.
- F. Roof thickness shall be uniform and have no overhang. Roof edge shall have a smooth form finish.
- G. Panel-to-Panel, Panel-to-Roof and Panel-to-Floor connections shall utilize corrosion resistant metal hardware and embedded items either hot dip galvanized after fabrication and/or stainless steel. Bolted connections shall utilized 1/2" diameter bolts (min.) with locking washer.
- H. Panel-to-Roof, Panel-to-Floor, and Panel to Panel joints shall be watertight, see Contract Drawings for additional requirements.
- I. Caulk all joints inside and out, caulk shall be BASF Sonolastic NP-1, color shall be as chosen by Owner and Architect.

#### 2.02 INSULATION

(NOT USED)

2.03 DOORS AND HARDWARE

(NOT USED)

### 2.04 PENETRATIONS, OPENINGS AND ROUGH OPENINGS

Penetrations, openings, and rough openings for doors, louvers, mechanical equipment, conduit, etc., shall be neat and true and shall be cast into pre-cast panels during fabrication, any damage to surrounding surfaces shall be repaired. All penetrations, openings, and rough openings shall be verified by the General Contractor prior to fabrication.

#### PART 3 - EXECUTION

- A. The precast building shall be transported to the jobsite and erected in place as shown on the Contract Documents.
- B. After all piping, wiring and utilities have been installed, tested and approved, contractor to clean the interior and exterior, and adjust doors to provide a weather tight seal.

#### END OF SECTION





				$\frown$	
	STRUCTURAL DESIGN CRITERIA:		$\left( \right)$	EAR	THWORK AND FOUNDATIONS NOTES:
	GOVERNING CODES:		$\mathbf{a}$	1.	FOUNDATION DESIGNS ARE BASED ON GEOTECHNICAL EVALUATION REPORT
	ALL STRUCTURES ARE DESIGNED IN ACCORDANCE WITH:		2		DPC DBA EMPIRE GEOTECHNICAL ENGINEERING SERVICES IN REPORT NO. W
	2020 BUILDING CODE OF NEW YORK STATE (BCNYS)		(	2	DATED DECEMBER 2, 2022.
	DESIGN LOADS:		2	3.	CONTRACTOR SHALL ALLOW OWNER'S REPRESENTATIVE TO VERIFY ACCEPT
	RISK CATEGORY:	11	$\sim$	Д	PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONSTRUCTION OF FO
	FLOOR LIVE LOADS:			ч.	COULD COMPROMISE THEIR CONDITION. CONTRACTOR SHALL PROVIDE CON
	ALL ROOMS	150 PSF	$\langle$		CLSM MUDMAT AS NEEDED. FOOTING SUBGRADES THAT BECOME SATURAT
	ROOF LIVE LOADS:		Ć		PER THE PROJECT DOCUMENTS AND ON-SITE GEOTECHNICAL TESTING AGEN
	MINIMUM ROOF LIVE LOAD	20 PSF	$\mathbf{i}$	F	THE CONTRACT
	ROOF SNOW LOAD DATA:		5	Э.	PLACE STRUCTURAL FILL ON FROZEN SUBGRADE OR FROZEN STRU
	GROUND SNOW LOAD,	$P_g = 40 PSF$	(	6.	ALL EXCAVATIONS SHALL BE DEWATERED AS NECESSARY TO MAINTAIN GRO
	SNOW LOAD IMPORTANCE FACTOR, SNOW EXPOSURE FACTOR.	$I_{s} = 1.00$ $C_{e} = 1.00$	2	7.	ALL EXCAVATIONS INTO UNDISTURBED SOILS SHALL BE PROOF ROLLED USIN
	THERMAL FACTOR,	$C_{t} = 1.00$	$\sim$	-	ROLLER WEIGHING AT LEAST 10 TONS. (4) PASSES OF ROLLER TO COMPACT
	FLAT ROOF SNOW LOAD: SLOPE FACTOR.	$P_{f} = 28 \text{ PSF}$ $C_{s} = 1.0$		8.	PASSES FOR PROOF ROLLING EVALUATION. ALL STRUCTURAL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS (AND AS
	SLOPED ROOF SNOW LOAD:	p <sub>s</sub> = 28 PSF	$\langle$		TESTING AGENCY), COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DR
			$\left( \right)$		ASTM D1557. IN-PLACE DENSITY SHALL BE DETERMINED BY ASTM D 6938. SI
	BASIC DESIGN WIND SPEED,	V = 110 MPH	$\mathbf{a}$	9.	REFER TO THE PROJECT SUBSURFACE INVESTIGATION AND GEOTECHNICAL E
	WIND EXPOSURE CATEGORY:	C	Ć	١	SPECIFIC REQUIREMENTS.
	DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING:	+/- 0.18		$\sum$	
	NOTES: 1) NEGATIVE VALUES INDICATE LO	ADS AWAY FROM SURFACE		601	
	2) VALUES ARE BASED ON 10 SF SE LARGER THAN 10 SF	E ASCE 7-16 CH 31 FOR AREAS		<u>CON</u>	<u>CRETE NOTES:</u>
	COMPONENTS & CLADDING (10 SF)			1.	ALL CONCRETE SHALL BE BATCHED, TRANSPORTED, CONVEYED, PLACED, CU
	ROOF: ZONE 1: 16 PSE / -42 0 PSE			2	WITH ACI 350.
	ZONE 1': 16 PSF / -24.1 PSF			2.	SHALL BE AIR ENTRAINED AND HAVE A MINIMUM 28-DAY COMPRESSIVE ST
	ZONE 2': 16 PSF / -55.4 PSF ZONE 3: 16 PSE / -75 5 PSE			3. ⊿	ALL REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60 DEFORMED
	WALL:			4.	SPLICE WWR SHEETS MINIMUM 6 INCHES.
	ZONE 4: 24.1 PSF / -26.2 PSF			5.	CLEAR CONCRETE COVER OVER REINFORCING BARS SHALL CONFORM TO TH
	ZONE 5. 24.1 PSF / -52.2 PSF				- CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER:
	EARTHQUAKE DESIGN DATA:	4.00		-	- CONCRETE CAST DIRECTLY AGAINST EARTH:
	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:	$I_e = 1.00$ S <sub>S</sub> : 0.14		7.	a. ALL EXPOSED FACES OF CONCRETE SHALL BE RUBBED FINISH (UNLES
		S <sub>1</sub> : 0.042			b. EXTERIOR WALKING SURFACES (INCLUDING SLABS AND SIDEWALKS)
	SITE CLASS: DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:	B Sps: 0.075			c. ALL STRUCTURAL CONCRETE SHALL ATTAIN THE SPECIFIED CONCRET
		S <sub>D1</sub> : 0.027			d. INTERIOR AND EXTERIOR SLABS, SIDEWALKS, AND OTHER WALKING
	SEISMIC DESIGN CATEGORY, BASIC SEISMIC FORCE-RESISTING SYSTEM	SDC: A		8	A PENETRATING SEALER. SUBMIT SEALER FOR APPROVAL PRIOR TO U APPLY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED
	ORDINARY UN-REINFORCED SHEAR MASONRY BE	ARING WALL		0.	OTHERWISE.
	ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL-FOF	RCE ANALYSIS		9.	ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE FORMED WITH A 3/
	RESPONSE MODIFICATION COEFFICIENT,	R = 2.0			INCLUDED).
ЦЦ	DESIGN BASE SHEAR, V:	V = 6.2 K		10.	ALL EXTERIOR SLABS AND FLATWORK SHALL HAVE 1/4" PER FOOT (1/8" PER
2	GEOTECHNICAL DATA:			11.	CONTRACTOR SHALL PROVIDE CONSTRUCTION JOINTS AND CONTROL JOINT
	ALLOWABLE SOIL BEARING = 3,500 PSF				DRAWINGS. CONTRACTOR MAY PROPOSE ADDITIONAL CONSTRUCTION JOIN
of -	MAT SLAB FOUNDATION ALLOWABLE SOIL BEARING = 4,500 PSF				PRIOR TO CONSTRUCTION. ALL ADDITIONAL CONSTRUCTION JOINTS SHALL BE APPROV
rge				12.	VERTICAL JOINTS IN FOUNDATION WALLS FROST WALLS SHALL LINE UP WITH
Cha	<u>GENERAL STRUCTURAL NOTES:</u>			13.	JOINTS. APPLY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED
<u> </u>	1. STRUCTURAL DRAWINGS SHALL BE FOLLOWED WITH COORDINATION WI	TH OTHER DRAWINGS. ANY			VERTICAL JOINTS.
	APPARENT DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF T	HE STRUCTURAL ENGINEER FOR		14.	CONTRACTOR SHALL COORDINATE ALL WALL AND SLAB PENETRATIONS AND NOTE THAT NOT ALL PENETRATIONS AND OPENINGS ARE INDICATED ON TH
	2. NO CHANGES OF THE STRUCTURAL SYSTEM AS INDICATED ON THESE DRA	WINGS SHALL BE PERFORMED		15.	CONTRACTOR SHALL COORDINATE THE CASTING-IN OF ALL EMBEDDED ITEM
XLN XLN	PRIOR TO RECEIVING WRITTEN APPROVAL FROM THE STRUCTURAL ENGI	NEER. STRUCTION SAFETY, CONTRACTOR		16	TRADES. POST-INSTALLATION OF EMBEDDED ITEMS WILL NOT BE ACCEPTED
Ť	SHALL BE RESPONSIBLE TO IDENTIFY AND PROVIDE COMPONENTS REQUI	RED FOR CONSTRUCTION SAFETY.		10.	PREMIXED REQUIRING ONLY THE ADDITION OF WATER. GROUT SHALL BE CA
	4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSION AND ELEVATIONS PRI CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORABLY REACING AND	OR TO STARTING CONSTRUCTION.		17	DAYS AND 7,000 PSI IN 28 DAYS MIXED AT A PLASTIC CONSISTENCY.
- Vd	THE EXISTING STRUCTURE DURING CONSTRUCTION. STRUCTURE SHALL B	E ASSUMED UNSTABLE UNTIL		17.	a. CHEMICAL ADHESIVE SYSTEMS SHALL BE USED TO INSTALL ALL DRILL
ned	COMPONENTS AND ALL CONNECTIONS ARE INSTALLED.				(BOLTS, DOWELS, ETC.) INTO HARDENED CONCRETE.
esig	6. CONTRACTOR SHALL SUBJUIT A DETAILED PLAN FOR SHORING, BRACING CONSTRUCTION. THE PLAN SHALL INCLUDE CONSTRUCTION SEQUENCE,	BEAR THE SEAL OF A PROFESSIONAL			7 DAYS AFTER CONCRETE PLACEMENT.
	ENGINEER REGISTERED IN THE STATE OF <b>NEW YORK</b> , AND BE SUBMITTED	TO THE ENGINEER OF RECORD		40	c. SUBMIT CHEMICAL ADHESIVE PRODUCT CATALOG CUTS FOR APPRO
	<ul> <li>FOR REVIEW PRIOR TO THE BEGINNING OF WORK.</li> <li>7. SECTIONS AND DETAILS ON THESE DRAWINGS ARE TO BE CONSIDERED TY</li> </ul>	YPICAL FOR SIMILAR		18.	REFER TO DIVISION 03 OF THE SPECIFICATIONS FOR ALL OTHER REQUIREMEN
	CONSTRUCTION NOT FULLY DETAILED.				
KLN	8. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE EXISTING FACILIT CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE	Y AND ACCESSORIES. ANY DAMAGE SATISFACTION OF THE OWNER.			
	9. PROVIDED REFERENCE DATUM ARE NOT RELATED TO ACTUAL SURVEY EL	EVATIONS.			
<u>vd</u> n					
rawı					
ā					
.r<					
0 ws†					

## AND FOUNDATIONS NOTES:

NDATION DESIGNS ARE BASED ON GEOTECHNICAL EVALUATION REPORT PROVIDED BY WMA ENGINEERING, DBA EMPIRE GEOTECHNICAL ENGINEERING SERVICES IN REPORT NO. WB-22-140 (REF. SJB NO. BE-22-140) ED DECEMBER 2, 2022.

FOUNDATIONS SHALL BE CONSTRUCTED ON APPROVED STRUCTURAL FILL OR BEDROCK.

TRACTOR SHALL ALLOW OWNER'S REPRESENTATIVE TO VERIFY ACCEPTABLE SUBGRADE CONDITIONS DR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONSTRUCTION OF FOUNDATIONS AND SLABS-ON-GRADE. OSED SUBGRADE IN OPEN EXCAVATIONS SHALL BE PROTECTED FROM RAIN AND/OR GROUNDWATER THAT LD COMPROMISE THEIR CONDITION. CONTRACTOR SHALL PROVIDE COVER AND/OR CASTING OF 3-INCH I MUDMAT AS NEEDED. FOOTING SUBGRADES THAT BECOME SATURATED AND UNSTABLE SHALL BE REXCAVATED AND REPLACED WITH 6-INCH LAYER OF NYSDOT NUMBER 2 CRUSHED STONE COMPACTED THE PROJECT DOCUMENTS AND ON-SITE GEOTECHNICAL TESTING AGENCY AT NO ADDITIONAL COST TO

CONTRACT.. NDATIONS SHALL NOT BE CAST ON FROZEN SUBGRADE OR FROZEN STRUCTURAL FILL MATERIAL. DO NOT CE STRUCTURAL FILL ON FROZEN SUBGRADE.

EXCAVATIONS SHALL BE DEWATERED AS NECESSARY TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW TING BEFORE PLACING OF CONCRETE.

EXCAVATIONS INTO UNDISTURBED SOILS SHALL BE PROOF ROLLED USING A VIBRATORY SMOOTH DRUM LER WEIGHING AT LEAST 10 TONS. (4) PASSES OF ROLLER TO COMPACT & DENSIFY WITH ADDITIONAL (2) SES FOR PROOF ROLLING EVALUATION.

STRUCTURAL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS (AND AS DIRECTED BY THE ON-SITE SOILS TING AGENCY), COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY M D1557. IN-PLACE DENSITY SHALL BE DETERMINED BY ASTM D 6938. SEE SPECIFICATIONS FOR

IPACTION AND FIELD TESTS. ER TO THE PROJECT SUBSURFACE INVESTIGATION AND GEOTECHNICAL EVALUATION FOR ADDITIONAL

### NOTES:

CONCRETE SHALL BE BATCHED, TRANSPORTED, CONVEYED, PLACED, CURED, AND TESTED IN ACCORDANCE I ACI 350.

EXTERIOR CONCRETE EXPOSED TO DEICING CHEMICALS (INCLUDING APRONS, SIDEWALKS, CURBS, ETC.) L BE AIR ENTRAINED AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60 DEFORMED BARS. DED WIRE REINFORCEMENT (WWR) SHALL BE SUPPLIED IN SHEETS CONFORM ING TO ASTM A1064. LAP

CE WWR SHEETS MINIMUM 6 INCHES. AR CONCRETE COVER OVER REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND OLLOWS ;

- CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER: 2" - CONCRETE CAST DIRECTLY AGAINST EARTH: 3"

ALL EXPOSED FACES OF CONCRETE SHALL BE RUBBED FINISH (UNLESS NOTED OTHERWISE). EXTERIOR WALKING SURFACES (INCLUDING SLABS AND SIDEWALKS) SHALL BE LIGHTLY TROWELED AND

RECEIVE A BROOM FINISH (APPLIED PERPENDICULAR TO THE LINE OF TRAVEL).

ALL STRUCTURAL CONCRETE SHALL ATTAIN THE SPECIFIED CONCRETE STRENGTH PRIOR TO LOADING. INTERIOR AND EXTERIOR SLABS, SIDEWALKS, AND OTHER WALKING SURFACES SHALL BE COATED WITH A PENETRATING SEALER. SUBMIT SEALER FOR APPROVAL PRIOR TO USE.

LY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED CONCRETE, UNLESS INDICATED ERWISE.

EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE FORMED WITH A 3/4" BY 3/4" CHAMFER, INCLUDING EDGES AND OUTSIDE VERTICAL CORNERS OF WALLS, SLABS, BEAMS, COLUMNS, ETC. (STAIR TREADS NOT UDED).

EXTERIOR SLABS AND FLATWORK SHALL HAVE 1/4" PER FOOT (1/8" PER FOOT MINIMUM) SURFACE SLOPE RDER TO PROVIDE POSITIVE DRAINAGE.

ITRACTOR SHALL PROVIDE CONSTRUCTION JOINTS AND CONTROL JOINTS AS INDICATED ON THESE

WINGS. CONTRACTOR MAY PROPOSE ADDITIONAL CONSTRUCTION JOINTS NEEDED TO FACILITATE

STRUCTION. ALL ADDITIONAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OR TO CONSTRUCTING.

TICAL JOINTS IN FOUNDATION WALLS FROST WALLS SHALL LINE UP WITH MASONRY BLOCK (CMU) CONTROL

LY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED CONCRETE, EXCEPT ALONG TICAL JOINTS.

ITRACTOR SHALL COORDINATE ALL WALL AND SLAB PENETRATIONS AND OPENINGS WITH OTHER TRADES. E THAT NOT ALL PENETRATIONS AND OPENINGS ARE INDICATED ON THESE STRUCTURAL DRAWINGS. TRACTOR SHALL COORDINATE THE CASTING-IN OF ALL EMBEDDED ITEMS AND ACCESSORIES OF ALL

DES. POST-INSTALLATION OF EMBEDDED ITEMS WILL NOT BE ACCEPTED. I-SHRINK GROUT SHALL BE FLOWABLE, NON-STAINING, CEMENT-BASED PRODUCT THAT IS MANUFACTURED MIXED REQUIRING ONLY THE ADDITION OF WATER. GROUT SHALL BE CAPABLE OF ACHIEVING 5,000 PSI IN 7

S AND 7,000 PSI IN 28 DAYS MIXED AT A PLASTIC CONSISTENCY. MICAL ADHESIVE SYSTEMS:

CHEMICAL ADHESIVE SYSTEMS SHALL BE USED TO INSTALL ALL DRILLED-IN ANCHOR COMPONENTS (BOLTS, DOWELS, ETC,) INTO HARDENED CONCRETE.

NO CHEMICAL ADHESIVE SYSTEMS, ANCHORS, BOLTS, DOWELS, ETC. MAY BE INSTALLED EARLIER THAN 7 DAYS AFTER CONCRETE PLACEMENT.

SUBMIT CHEMICAL ADHESIVE PRODUCT CATALOG CUTS FOR APPROVAL.

ER TO DIVISION 03 OF THE SPECIFICATIONS FOR ALL OTHER REQUIREMENTS.

#### MASONRY NOTES:

- THESE STRUCTURAL DRAWINGS.
- ALL MASONRY CELLS CONSISTING OF REINFORCING BARS SHALL BE GROUTED SOLID. BASE OF WALL DOWELS SHALL BE INSTALLED AT EVERY REINFORCED MASONRY CELL. FULLY GROUT ALL CELLS OF MASONRY CONSTRUCTED BELOW GRADE. CONTINUOUS BOND BEAMS SHALL BE CONSTRUCTED AT TOP OF MASONRY WALLS THAT SUPPORT A
- 4. 5.
- ROOF OR FLOOR SLAB ABOVE. THESE BOND BEAMS SHALL NOT BE INTERRUPTED AT CONTROL JOINTS. INFILL MASONRY AROUND ALL EMBEDDED BEAMS AND COLUMNS POCKETED INTO THE WALL. LINTELS ARE REQUIRED FOR ALL CMU WALL OPENINGS GREATER THAN 16 INCHES.
- 6.

#### STRUCTURAL STEEL NOTES:

- ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT EDITION OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).
- FABRICATION, WELDING, ERECTION, AND INSPECTION CONFORMS TO THE AISC MANUAL OF STEEL 2.
- CONSTRUCTION LATEST EDITION MATERIALS FOR STRUCTURAL MEMBERS SHALL CONFORM WITH THE ASTM DESIGNATIONS AS FOLLOWS: - W-SHAPES: ASTM A992, GRADE 50 - CHANNELS, TEES, & ANGLES: ASTM A36 (36 KSI) ASTM A500, GRADE B (46 KSI) - HOLLOW STRUCTURAL SHAPES (HSS): - STRUCTURAL PLATES: ASTM A36 (36 KSI) ALL FABRICATIONS SHALL CONSIST OF FULLY WELDED CONNECTIONS, UNLESS INDICATED OTHERWISE. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "2010 STRUCTURAL WELDING CODE - STEEL" (AWS D1.1).
- 3. 4

  - FILLER METAL: a.
  - WELDING ELECTRODES: E70XX SMAW ALL FIELD WELDS SHALL BE CLEANED, AND SHALL BE PRIMED AND TOP COATED WITH PAINT TO
  - PREVENT FROM RUSTING.
- 5. MATERIALS FOR FASTENERS SHALL CONFORM WITH THE ASTM AND ANSI DESIGNATIONS AS FOLLOWS: - STRUCTURAL BOLTS: ASTM A325N
  - STRUCTURAL NUTS:
  - STEEL WASHERS:
  - ANCHOR BOLTS (RODS):
- ASTM F1554 (HOT-DIP GALVANIZED) PROVIDE 1/4" FILLET WELDS UNLESS SPECIFIED OTHERWISE WITH E70XX SERIES LOW HYDROGEN 6. ELECTRODES/RODS.
- STEEL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS ARE TO BE FULL DEPTH CONNECTIONS MADE WITH 5/16" DOUBLE ANGLES AND MAXIMUM NUMBER OF ¾ INCH DIAMETER A325 BOLTS UNLESS SPECIFIED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL BE MADE SNUG TIGHT. 8. ALL ANCHOR BOLTS SHALL BE DRILLED INTO THE EXISTING FLOOR SLAB AND SET WITH CHEMICAL 9. ADHESIVE ANCHORING SYSTEM.
- ALL STEEL MEMBERS, COMPONENTS, AND FASTENERS SHALL BE COATED WITH APPROVED EPOXY PAINT 10. SYSTEM. ALL UNPAINTED STRUCTURAL STEEL EXPOSED TO ELEMENTS TO BE HOT DIPPED GALVANIZED. 11. SUBMIT FULLY DETAILED SHOP FABRICATION DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND ERECTION. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.

## ALL MASONRY WALLS SHALL BE REINFORCED. REFER TO REINFORCED MASONRY DETAILS INDICATED ON

- AWS 5.1 OR 5.5
- ASTM A563
- ASTM F436

IT IS A EDUC SPECI. UNLE: DIREC ENGI ARCHI AN ITE THE S IS ALTI SHAL INCLLO FOLLO OF SL DESC	VIOLATION ( ATION LAV AL PROVISIO SS THEY AF TION OF A L NEER, ARC TECT, OR LA EMIN ANY W TAMP OF A L ERED, THE A L STAMP T JOE THE NC WED BY THE ICH ALTERA RIPTION C REV	DF THE NEW V, ARTICLE DNS, FOR A RE ACTING ICENSED PR CHITECT, L ND SURVEY VAY. IF AN IT JCENSED PF LTERING PR THE DOCU TATION, ANE DF THE AL VISIONS NDUM	YORK 145 ( NY PE UNDE OFESS ANDS DR, TO EM BE OFESS MENTI LITERE RE, THI D A SPI TERA	STATE S7209 RSON, R THE IONAL ICAPE ALTER ARING IONAL IO
SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION		STRUCTURAL NOTES		NG TOMPKINS COUNTY, NEW YORK
TICA				TOWN OF LANSIN
443 Electronics Parkway	Liverpool, NY 13088		NYS CERT. OF AUTH.: 0018246	Barton & Loguidice, D.P.C.
NYS Date	EXP.:	05/3 BER, 20	1/2 023	026
Scale Shee	e AS S et Numb	HOWI	N	
Proj	<b>S(</b> ect Num 677.0	001 <sup>1ber</sup>	001	







– L3x3x3/8" STEEL POST (TYP.)

- 1/2"X6"X6" BASE PLATEW/ (2) 3/4"Ø DRILLED-IN ADHESIVE ANCHORS (MINIMUM 6" EMBEDMENT) (TYP.)







IT IS A EDUC SPECI. UNLE: DIREC ENGI ARCHI ARCHI ARCHI ARCHI SHAL INCLU FOLLO OF SU DESC	VIOLATION ATION LA AL PROVIS SS THEY A TION OF A NEER, AR TECT, OR L MIN ANY ' TAMP OF A ERED, THE . L STAMP IDE THE N WED BY TH ICH ALTER RIPTION	I OF THE NEW W, ARTICL IONS, FOR / RE ACTING LICENSED PI CHITECT, AND SURVEY WAY. IF AN I LICENSED P ALTERING PI THE DOCL OTATION ". IEIR SIGNATU ATION, AN OF THE AI	V YORK E 145 9 ANY PE UNDE ROFESS COR, TO TEM BE ROFESS JMENT ALTERE JRE, THI D A SP LTERA	STATE S7209 RSON, R THE IONAL IONAL IONAL IONAL IONAL E DATE E CIFIC TION.
<u>/1</u>	ADD	ENDUM	NO.	4
SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION		STRUCTURAL BUILDING SECTIONS		TOWN OF LANSING TOWN OF LANSING
443 Electronics Parkway	Liverpool, NY 13088	NEW H	NYS CERT. OF AUTH.: 0018246	Barton & Loguidice, D.P.C.
NYS Date		: 05/	31/2 022	2026
Scale	e AS :	SHOW	N	
Shee	et Num	<sup>ber</sup>		
Proj	ect Nur 677.	nber 006.(	001	







ed: 11/8/2023 1:05:2

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Figure_3.jpeg)

# 2 8" HOLLOW CORE PLANK AT PARALLEL CMU WALL S100 SCALE: 1 1/2" = 1'-0"

![](_page_18_Figure_6.jpeg)

TYP. BOND BEAM CORNER REINF.

SCALE: 1" = 1'-0"

![](_page_18_Figure_11.jpeg)

## TYPICAL VERTICAL CMU CONTROL JOINT

SCALE: NOT TO SCALE

![](_page_18_Figure_14.jpeg)

![](_page_19_Figure_0.jpeg)

IT IS A EDU SPEC UNLI DIRE ENG ARCH AN IT THE SHA INCL FOLL OF S DESU	VIOLATION CATION LA VIAL PROVIS ESS THEY A CTION OF A INEER, AR HITECT, OR LA TEM IN ANY V TAMP OF A TERED, THE A UDE THE NO DWED BY TH UCH ALTER CRIPTION	OF THE NEW W, ARTICLE IONS, FOR A RE ACTING LICENSED PF CHITECT, L AND SURVEY WAY. IF AN IT LICENSED PF ALTERING PF THE DOCU OTATION "/ EIR SIGNATU ATION, ANI OF THE AL	/ YORK 145 { NY PE UNDE OFESS ANDS OR, TO EM BE ROFESS OFESS OFESS OFESS OFESS CO	STATE S7209 RSON, R THE IONAL CAPE ALTER ARING IONAL IONAL IONAL CONAL E DATE ECIFIC TION.
	RE ADDI		NO.	4
JTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION		<b>GENERATOR SECTION</b>		TOMPKINS COUNTY, NEW YORK
SO	BULIUN			TOWN OF LANSING
443 Electronics Parkway	Liverpool, NY 13088		NYS CERT. OF AUTH.: 0018246	Barton & Loguidice, D.P.C.
NYS Dat	E EXP. e OCTO	0743 0743 SSIONAL : 05/3 BER, 20	31/2 023	026
She Pro	AS S et Numl ject Nun 677.0	5HOW 503 nber 006.0	001	

![](_page_20_Figure_0.jpeg)

IT IS A EDUC SPECI. UNLE: DIREC ENGI ARCHI AN ITE THE S IS ALTI SHAL INCLU FOLLO OF SL DESC	VIOLATION ATION LA AL PROVIS SS THEY A TION OF A NEER, AR TECT, OR LA MIN ANY N TAMP OF A ERED, THE N IDE THE N WED BY TH ICH ALTER RIPTION	OF THE NEV W, ARTICLI IONS, FOR A RE ACTING LICENSED PF CHITECT, I AND SURVEY WAY. IF AN I <sup>T</sup> LICENSED PI ALTERING PF THE DOCU OTATION "/ EIR SIGNATU ATION, ANI OF THE AL VISIONS	V YORK E 145 ( ANY PE UNDE COFESS ANDS OR, TO FEM BE ROFESS ROFESS ROFESS IMENT ALTERE JRE, THE D A SP .TERA	STATE \$7209 RSON, R THE IONAL SCAPE ALTER ARING IONAL IONAL IONAL IONAL E DATE ECIFIC TION.
	ADDI	ENDUM	NO.	4
SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION		TRANSFORMER PAD DETAILING		WN OF LANSING TOMPKINS COUNTY, NEW YORK
443 Electronics Parkway	Liverpool, NY 13088		NYS CERT. OF AUTH.: 0018246	Barton & Loguidice, D.P.C.
NYS Date	E EXP.	0743 0743 105/ BER, 2 SHOW	31/2 023	2026
Shee Proje	ect Numl	oer 504 nber 006.0	)01	