

**GENERAL STRUCTURAL NOTES:**

- G1. ALL STRUCTURAL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, NEW YORK STATE BUILDING CODE 2020 AND LOCAL CODES LAWS & REGULATIONS.
- G2. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED AND SHALL RESOLVE THE CONFLICT.
- G3. IN ANY CASE OF CONFLICT BETWEEN THE DRAWINGS AND THE PROJECT SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- G4. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT PRIOR REVIEW BY THE ARCHITECT.
- G5. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- G6. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND LOCAL LAWS AND REGULATIONS.
- G7. GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF OPENINGS, PITS, BOXES, SUMPS, TRENCHES, SLEEVES, DEPRESSIONS, GROOVES, AND CHAMFERS, WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES.
- G8. THE STRUCTURAL DESIGN IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. NO PROVISIONS HAVE BEEN MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE PROPER AND ADEQUATE PROVISIONS FOR STABILITY OF, AND ALL STRESSES TO, THE STRUCTURE DUE TO ANY CAUSE DURING CONSTRUCTION.

- G9. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REQUEST ALL DIMENSIONS OR INFORMATION REQUIRED TO PERFORM THE WORK FROM THE ARCHITECT. WORK COMPLETED BY THE CONTRACTOR WITHOUT DIMENSIONS OR INFORMATION SHALL BE DONE AT THE CONTRACTOR'S OWN RISK AND SHALL BE REMOVED AND REINSTALLED TO THE SPECIFICATIONS OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- G10. MEANS AND METHODS OF CONSTRUCTION AS WELL AS COMPLIANCE WITH OSHA AND OTHER SAFETY LAWS AND REGULATIONS IS EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR, HIS SUBCONTRACTOR(S), SUPPLIERS, CONSULTANTS AND SERVANTS.

**FOUNDATIONS AND BACKFILL:**

- F1. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED MATERIAL. THE ARCHITECT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF FOOTING CONCRETE PLACEMENT.
- F2. NO FOOTINGS SHALL BE PLACED IN WATER, NOR UPON FROZEN GROUND.
- F3. MATERIAL ADJACENT TO AND BELOW FOOTINGS SHALL BE KEPT FROM FREEZING AT ALL TIMES. IF ANY MATERIAL IS FOUND TO BE FROZEN IT SHALL BE REMOVED AND REPLACED WITH CONCRETE. IF ANY FROZEN MATERIAL IS FOUND BELOW THE SLAB-ON-GRADE, IT SHALL BE REMOVED AND REPLACED WITH ENGINEERED STRUCTURAL FILL.
- F4. HAND EXCAVATE THE FINAL 6 INCHES OF MATERIAL TO THE BEARING LEVEL AT ALL FOOTINGS.
- F5. ALL FOOTINGS AND PIERS SHALL BE CENTERED UNDER PROPOSED COLUMNS/POSTS UNLESS OTHERWISE NOTED.
- F6. ALL EXTERIOR FOUNDATIONS SHALL BE SET AT OR BELOW THE FROST DEPTH (MIN 48" BELOW GARDE).
- F7. VERTICAL MISALIGNMENT OF ANCHOR BOLTS SHALL BE HELD TO 1/40 OR LESS.

**STRUCTURAL STEEL:**

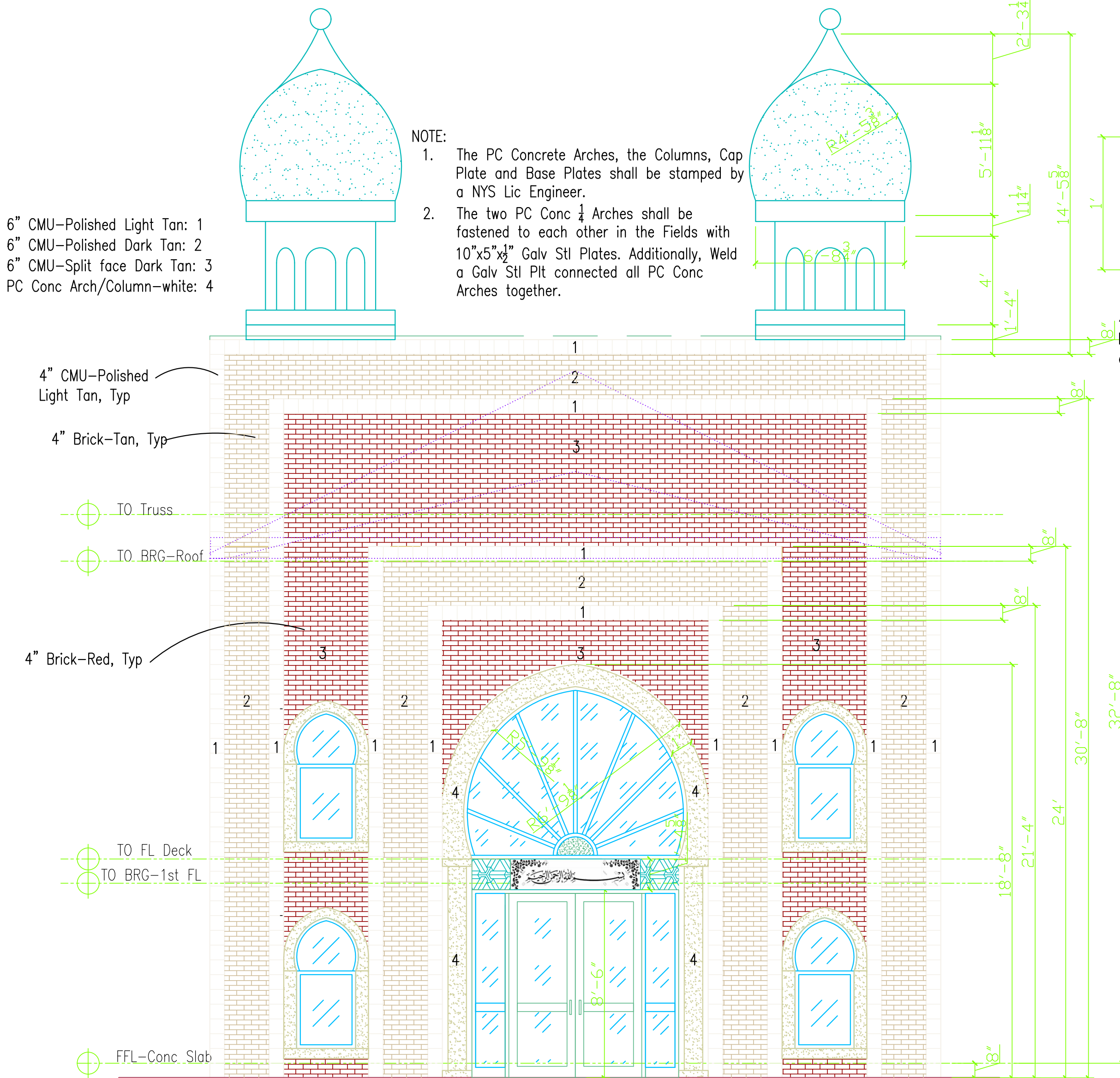
- S1. STRUCTURAL STEEL DESIGN, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS.
- S2. STRUCTURAL STEEL SHALL BE NEW STRUCTURAL CARBON STEEL CONFORMING TO:

W-SHAPE:	ASTM A992 GRADE 50
STRUCTURAL TUBING:	ASTM A500 GRADE B
ANGLES:	ASTM A36
PLATES:	ASTM A529 GRADE 50

- S3. ALL BEAM-TO-BEAM, BEAM-TO-GIRDER, AND BEAM OR GIRDER-TO-COLUMN CONNECTIONS SHALL BE PER AISC SPECIFICATIONS.
- S4. WELDING SHALL CONFORM TO AWS D1.1. SHALL BE DONE BY CERTIFIED WELDERS AND SHALL BE UNDERTAKEN BY A FABRICATOR QUALIFIED BY THE AWS.
- S5. UNLESS OTHERWISE NOTED ALL BOLTED CONNECTIONS SHALL BE SLIP-CRITICAL WITH SERVICEABILITY AS THE LIMIT-STATE. CLASS A FAYING SURFACES SHALL BE USED AT ALL CONNECTION INTERFACES. ALL BOLTS SHALL BE 3/4 INCH DIAMETER HIGH-STRENGTH TENSION CONTROL BOLTS CONFORMING TO ASTM F1852 AND GALVANIZED, UNLESS OTHERWISE NOTED.
- S6. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 55. ALL ANCHOR BOLTS SHALL BE 1 3/4" DIAMETER AND GALVANIZED, UNLESS OTHERWISE NOTED.
- S7. ALL WELDS SHALL BE 1/4" FILLET WELDS UNLESS OTHERWISE NOTED OR THE AISC MINIMUM WELD SIZE IS GREATER. ALL WELDING ELECTRODES SHALL BE GRADE E-70.
- S8. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- S9. ALL CUTS, HOLES, COPINGS, ETC. REQUIRED IN THE STEEL SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS, COPINGS, OR BURNING OF HOLES, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- S10. TEMPORARY BRACING OF STEEL MEMBERS DURING CONSTRUCTION IS REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- S11. VERIFICATION OF ADEQUACY OF ANCHOR BOLTS AND FOUNDATIONS TO RESIST ERECTION INDUCED FORCES IS SOLELY THE RESPONSIBILITY OF THE STEEL ERECTOR.
- S12. ALL SHOP AND FIELD WELDING IS SUBJECT TO INSPECTION. COMPLETE PENETRATION WELDS IN MOMENT-RESISTING CONNECTIONS SHALL BE TESTED BY ULTRASOUND OR RADIOGRAPHY AS PART OF THE PROGRAM OF STRUCTURAL TESTS AND INSPECTIONS.

**WOOD NOTES**

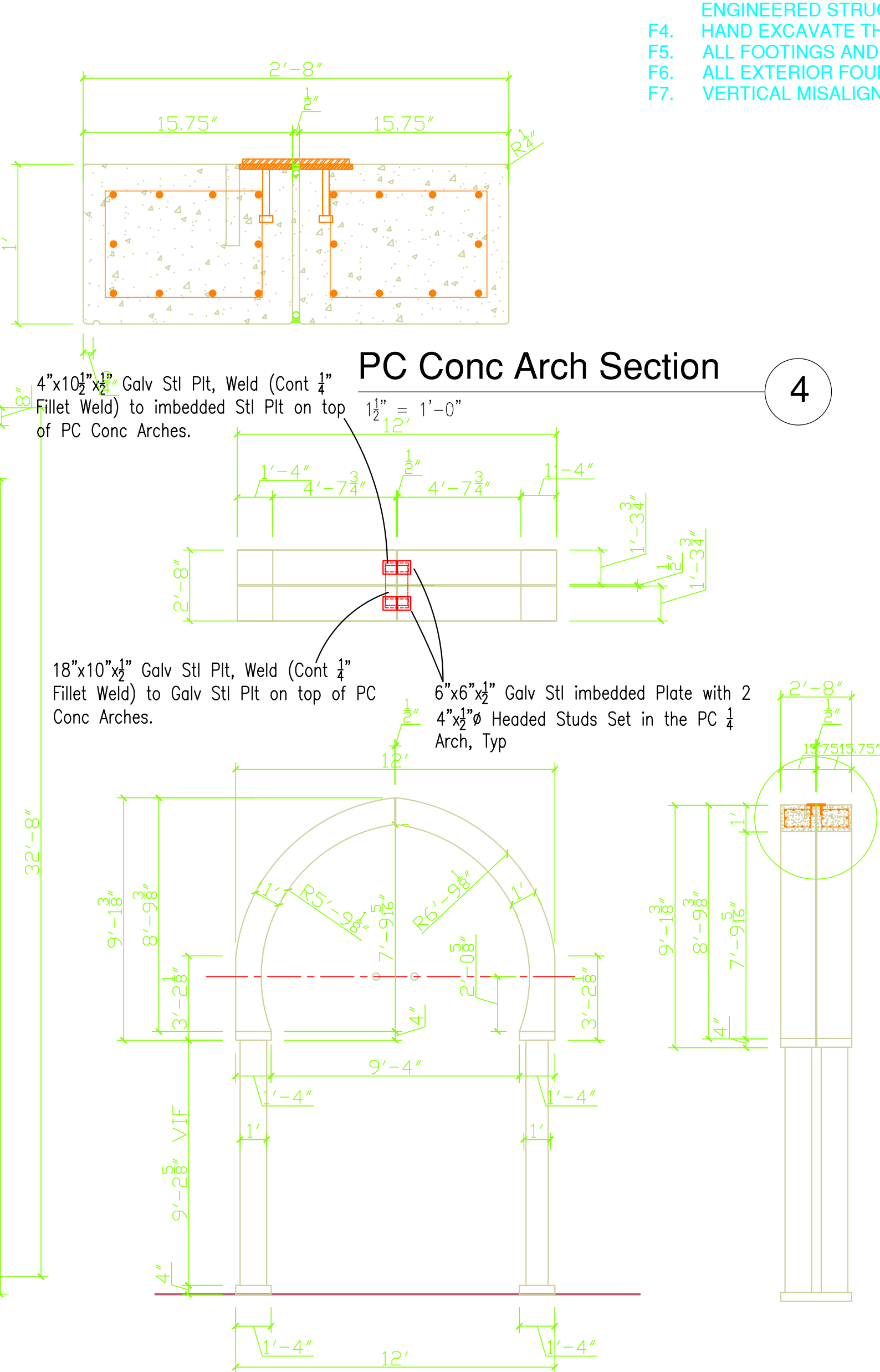
- 1) WOOD CONSTRUCTION SHALL CONFORM TO THE AMERICAN FOREST AND PAPER ASSOCIATION'S (AF&PA) NATIONAL DESIGN SPECIFICATIONS, 2001 EDITION. LUMBER SHALL BE #2 HEM-FIR OR BETTER WITH Fb=850 psi, Fv=150 psi AND E=1,300,000 psi.
- 2) WOOD IN CONTACT WITH MASONRY, CONCRETE OR EARTH, OR WITHIN 1'-0" OF GRADE OR EXPOSED TO THE EXTERIOR SHALL BE PRESSURE PRESERVATIVE TREATED.
- 3) MICRO-LAM (LVL) LUMBER AND TRUS-JOISTS SHALL BE AS MANUFACTURED BY "TRUS-JOIST, LVL by Weyerhaeuser". BEAMS SHALL BE PROPERLY FASTENED TOGETHER WITH A MINIMUM OF (2) -ROWS OF 16d NAILS PER FOOT. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 4) FRAMING ANCHORS AND MISCELLANEOUS METAL CONNECTING DEVICES FOR WOOD FRAMING SHALL BE GALVANIZED STEEL OF AT LEAST 16 GAGE THICKNESS INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE NAILS SUPPLIED BY OR RECOMMENDED BY THE MANUFACTURER.
- 5) All wood in contact with Concrete, Masonry, openly exposed to weather shall be Pressure Treated. Provide 1" Thick Closed Cell compressible foam under all PT Wd Plates which are on top of Concrete Slab.



**Front Elevation**

1/4" = 1'-0"

1



**PC Conc Arch Section**

4

**PC Conc Arch Front Elevation**

1/4" = 1'-0"

2

**PC Conc Arch Section**

1/4" = 1'-0"

3

**STRUCTURAL DESIGN CRITERIA:**

- DC1. CODES: 2015 NEW YORK STATE BUILDING CODE
- DC2. DESIGN LOADS:

LIVE LOADS:	
ROOF/CANOPY	20 PSF
FIRST & SECOND FLOOR	100 PSF

SNOW LOADS:	
GROUND SNOW LOAD	50 PSF
MAX SNOW DRIFT LOAD	51 PSF

WIND LOAD:	
BASIC WIND SPEED	105 MPH
RISK CATEGORY	I
WIND EXPOSURE	EXPOSURE B

SEISMIC LOAD:	
SEISMIC IMPORTANCE FACTOR	1.0
SHORT PERIOD (Ss)	0.159
LONG PERIOD (S1)	0.059
SITE CLASS	D (ASSUMED)
SEISMIC DESIGN CATEGORY	B

- DC3. FOUNDATION CONDITIONS ASSUMED FOR FOUNDATION DESIGN INCLUDE AN ALLOWABLE SOIL BEARING CAPACITY OF 3 KSF; MAXIMUM HEIGHT OF WATER TABLE 4-FT BELOW FINISHED GRADE; AND FROST DEPTH OF 4 FT.

**CONCRETE:**

- C1. UNLESS OTHERWISE NOTED ALL CONCRETE SHALL BE NORMAL WEIGHT, 3/4" STONE CONCRETE WITH 4000 PSI 28 DAY COMPRESSIVE STRENGTH. ALL CONCRETE EXPOSED TO WEATHER AND CONCRETE FOR FOUNDATIONS SHALL BE AIR ENTRAINED 5% TO 7%.
- C2. ALL REINFORCING SHALL BE ASTM A-615 GRADE 60. WELDED WIRE FABRIC SHALL BE ASTM A-185.
- C3. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE FOR CONCRETE PLACEMENT. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED FOR SUPPORT OF ALL BARS AS REQUIRED.
- C4. LAP CONTINUOUS REINFORCEMENT AS FOLLOWS, U.O.N. (ASSUMES CONCRETE COVER GREATER THAN TWO BAR DIAMETER, CENTER-TO-CENTER BAR SPACING GREATER THAN THREE BAR DIAMETERS):

**4000 PSI CONCRETE:**

BAR SIZE	TOP BARS*	OTHER BARS
#3	19"	15"
#4	25"	19"
#5	31"	24"
#6	37"	29"
#7	44"	34"
#8	50"	38"
#9	56"	43"

\*TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

- C5. TERMINATE ALL CONTINUOUS BARS WITH STANDARD HOOKS.
- C6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CAST AGAINST FORMS AND EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER:	2"
#5 AND SMALLER:	1 1/2"

NOT EXPOSED TO WEATHER OR EARTH, SLABS, WALLS, AND JOISTS:	
#14 AND LARGER:	1 1/2"
#11 AND SMALLER:	1"
BEAMS AND COLUMNS:	1 1/2"

- C7. CONSTRUCTION JOINTS ARE NOT PERMITTED EXCEPT AS SHOWN ON THE DRAWINGS OR AS REVIEWED BY THE ENGINEER, SLAB PLACEMENT SHALL NOT EXCEED 4000 SQ. FT. AND WALL PLACEMENT 80 FT. UNLESS APPROVED.
- C8. ALL CONCRETE SLABS-ON-GRADE SHALL HAVE MINIMUM WWF 6 X 6 W2.1 X W2.1 PER 4 INCH THICKNESS U.O.N.
- C9. MINIMUM 8 MIL POLYETHYLENE VAPOR BARRIER SHALL BE INSTALLED UNDER ALL CONCRETE SLABS-ON-GRADE U.O.
- C10. CONTRACTOR TO LOCATE AND COORDINATE ALL INSERTS, SLOTS, SLEEVES, OPENINGS, PIPES, ETC. AS REQUIRED.
- C11. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE OR WHICH INCREASE THE POTENTIAL FOR CORROSION OF EMBEDDED METAL ITEMS SHALL NOT BE USED IN ANY CONCRETE.
- C12. ALUMINUM ITEMS SHALL NOT BE PLACED IN CONCRETE.
- C13. PIPE OR CONDUIT EMBEDDED IN SLAB SHALL NOT EXCEED 1/3 THE SLAB THICKNESS AND SHALL BE PLACED WITHIN THE SLAB MIDDLE THIRD OF THICKNESS. MINIMUM CLEAR SPACING OF CONDUIT/PIPE IS 3 X OD. NO CONDUIT/PIPE TO BE PLACED CLOSER THAN 12" FROM COLUMN FACE.
- C14. CONCRETE DESIGN IS BASED ON ULTIMATE STRENGTH DESIGN OF ACI 318-14.
- C15. WELDING OF REINFORCING BARS IS NOT PERMITTED EXCEPT BY PRIOR REVIEW OF THE ENGINEER.
- C16. CONTRACTOR IS RESPONSIBLE FOR PROPER AND ADEQUATE SHORING OF CONCRETE WORK.

Project:

**Salam Mosque  
Front Renovation  
PHASE 2**

276 Central Ave.  
Albany, NY 12206

Owner:

**Salam Mosque**

276 Central Ave.  
Albany, NY 12206

Architect:



333 Glen Haven Road  
Rochester, New York 14609  
Tel/Fax: (585) 654-6000  
Mobile: (585) 739-6000  
Email: grh@rochester.rr.com

Consultant:

**Revisions:**

Rev.	Description	By	Date

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Sheet Title:

**Front Elevation**

Project Manager: RH

Project Architect: RH

Drawn by: RH

Checked by: RH

Date Issued: 6-30-21

Project No: 91017b

Seal:



Scale: 1/4" = 1'-0"

Drawing No.: