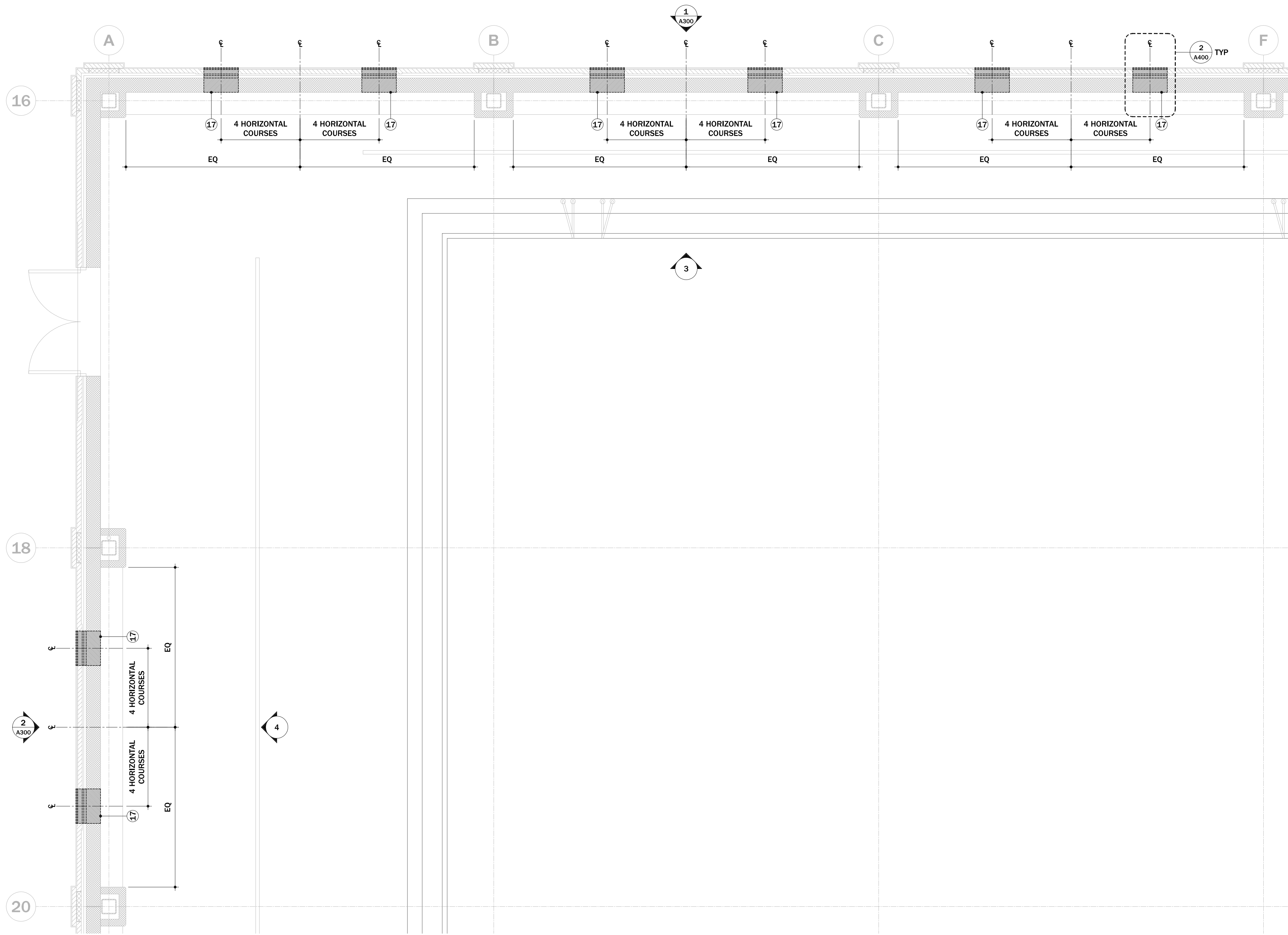
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C-100

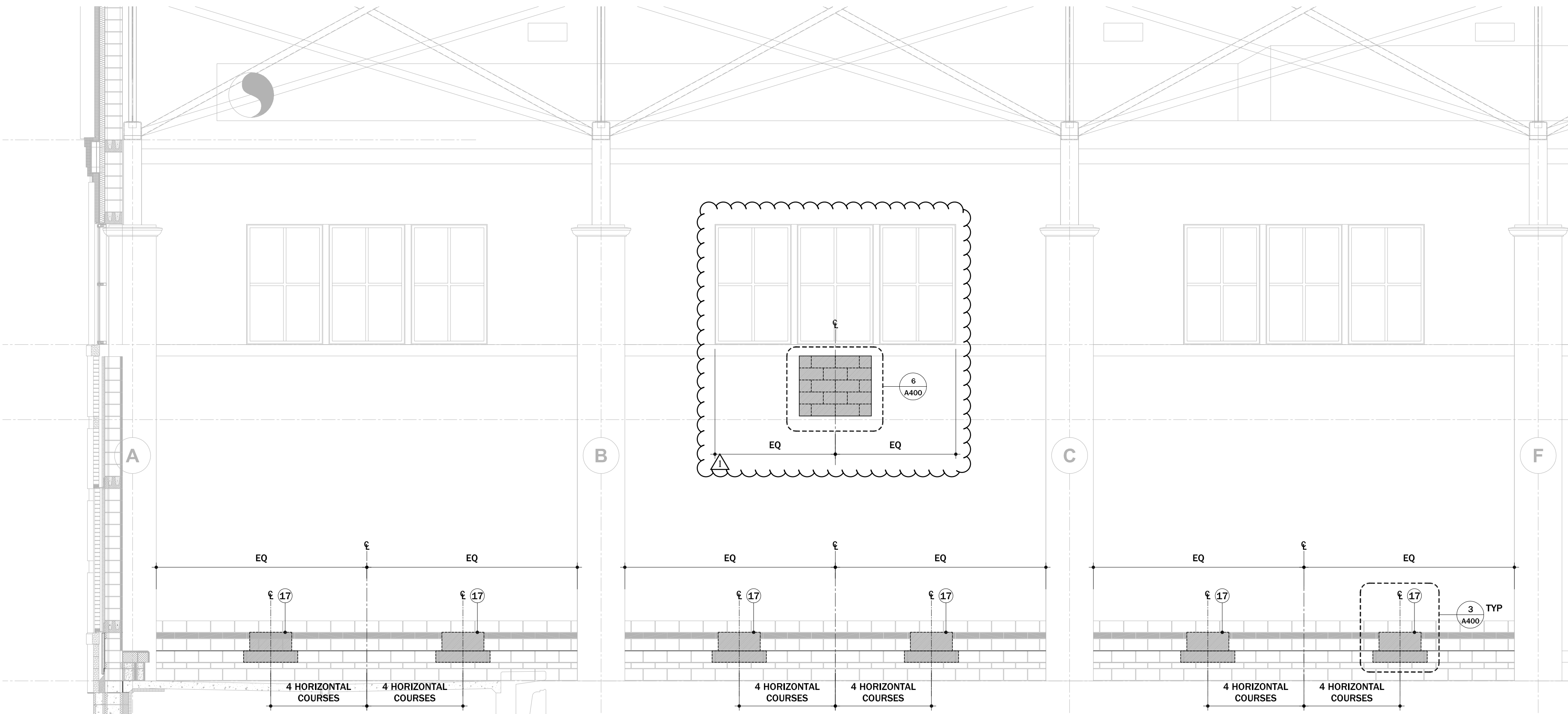
BRINJAC
ENGINEERING since 1955

114 North 2nd Street
Harrisburg, PA 17101-1401
Phone: (717) 233-4502
Fax: (717) 233-0833
www.brinjac.com

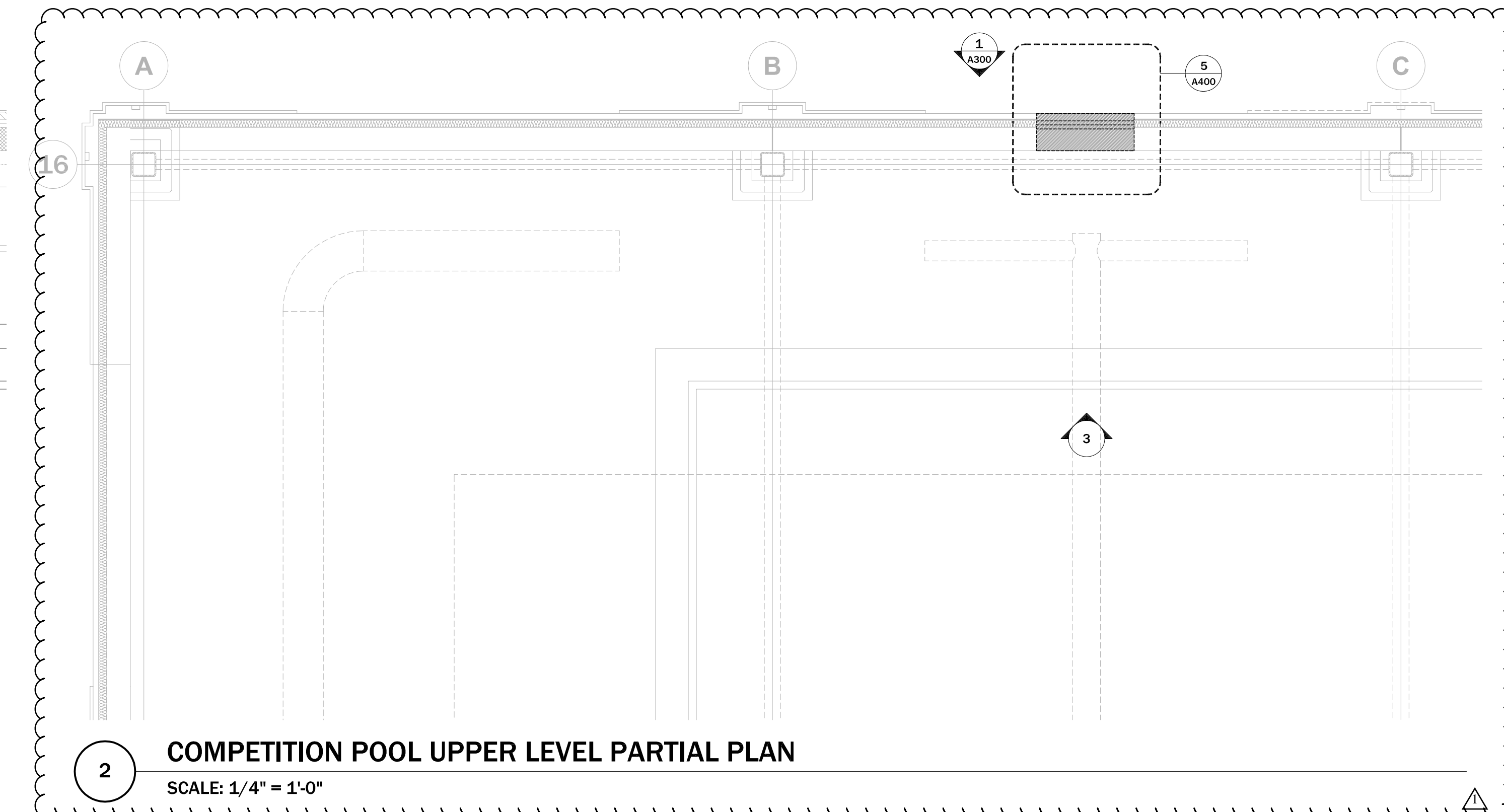
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1 COMPETITION POOL LOWER LEVEL PARTIAL PLAN
SCALE: 1/4" = 1'-0"

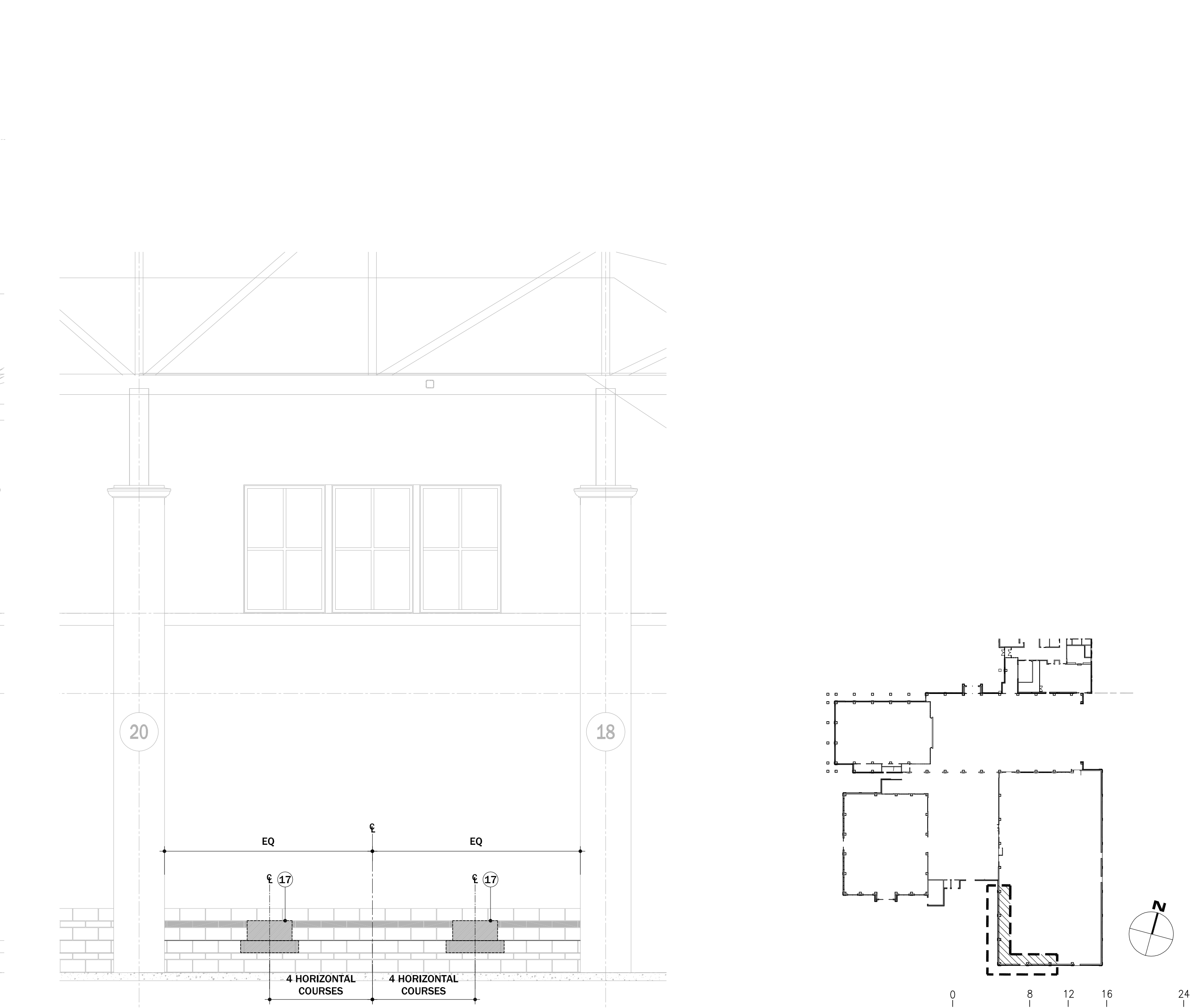


3 ELEVATION
SCALE: 1/4" = 1'-0"



2 COMPETITION POOL UPPER LEVEL PARTIAL PLAN
SCALE: 1/4" = 1'-0"

- SHEET NOTES**
- GROUND FACE MASONRY, TRENNYTH TRENDSTONE PLUS, COLOR MADISON, COORDINATING TRENNYTH MORTAR COLOR TO MATCH EXISTING
 - GROUND FACE MASONRY, TRENNYTH TRENDSTONE PLUS, COLOR HAWTHORN, COORDINATING TRENNYTH MORTAR COLOR TO MATCH EXISTING
 - 1 1/2 X 1 1/2 X 1/8 ST STL WELDED ANGLE SUPPORT FRAME
 - 3/4 HD0 PLYWOOD SUBSTRATE ATTACHED TO WITH ST STL C/S SCREWS
 - MASONRY ANCHOR SCREW
 - TITUS CT-PP-O LINEAR DIFFUSER WITH TYPE 14 BORDER. SEE MECH
 - 1/2 HD0 PLYWOOD SUBSTRATE ATTACHED TO WITH ST STL C/S SCREWS
 - ST STL COUNTER FLASHING RECEIVER
 - ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SURROUND HEADER, SILL+JAMBS
 - ROD + CAULK
 - FIELD CUT 3/8 X 1 1/2 REGLET WITH LEAD WEDGE+CAULK
 - INSULATED DUCT ASSEMBLY. SEE MECH
 - EXISTING CMU/BRICK REMOVED
 - METAL TRIM FRAME. SEE MECH
 - CMU COURSE TO REMAIN
 - CMU COURSE TO REMAIN. CMU TO BE MODIFIED IN PLACE TO ALLOW FOR PLACEMENT OF STRUCTURAL REINFORCEMENT+GROUTED SOLID. SEE 4/S100
 - NEW OPENING TO EXISTING WALL ASSEMBLY
 - EXISTING CAST STONE WATERTABLE+COURSE BELOW, CAREFULLY CUT AND REMOVED TO ACCEPT NEW DUCTWORK. CONTRACTOR TO VIF DUCT ASSEMBLY DIMENSIONS. TOP OF DUCTWORK ASSEMBLY TO ALIGN WITH TOP OF WATERTABLE.
 - UNDERSIDE OF BOND BEAM
 - ST STL CRAMP STRAP
 - GROUND FACE MASONRY, TRENNYTH TRENDSTONE PLUS TO MATCH EXISTING. COORDINATING TRENNYTH MORTAR COLOR TO MATCH EXISTING
 - FOLD LINE
 - EXPOSED FACES OF 3 TO BE PAINTED TO MATCH 6
 - NEW STRUCT. STEEL. SEE 4/S100
 - NEW REINFORCEMENT. SEE 4/S100
 - REMOVE CENTER PORTION OF GROUT+CMU WEBS SEE S100
 - BLOCKING AS REQUIRED



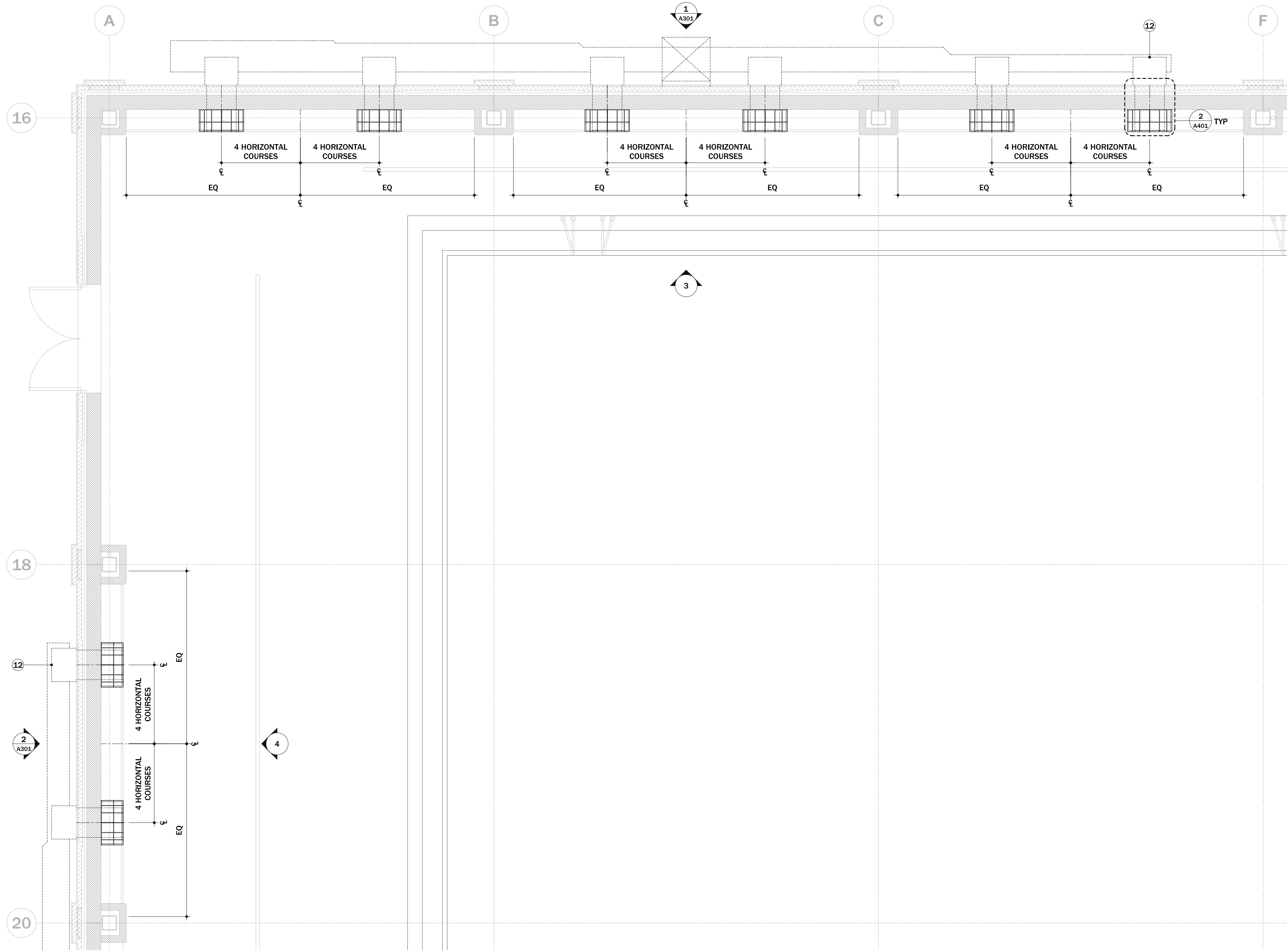
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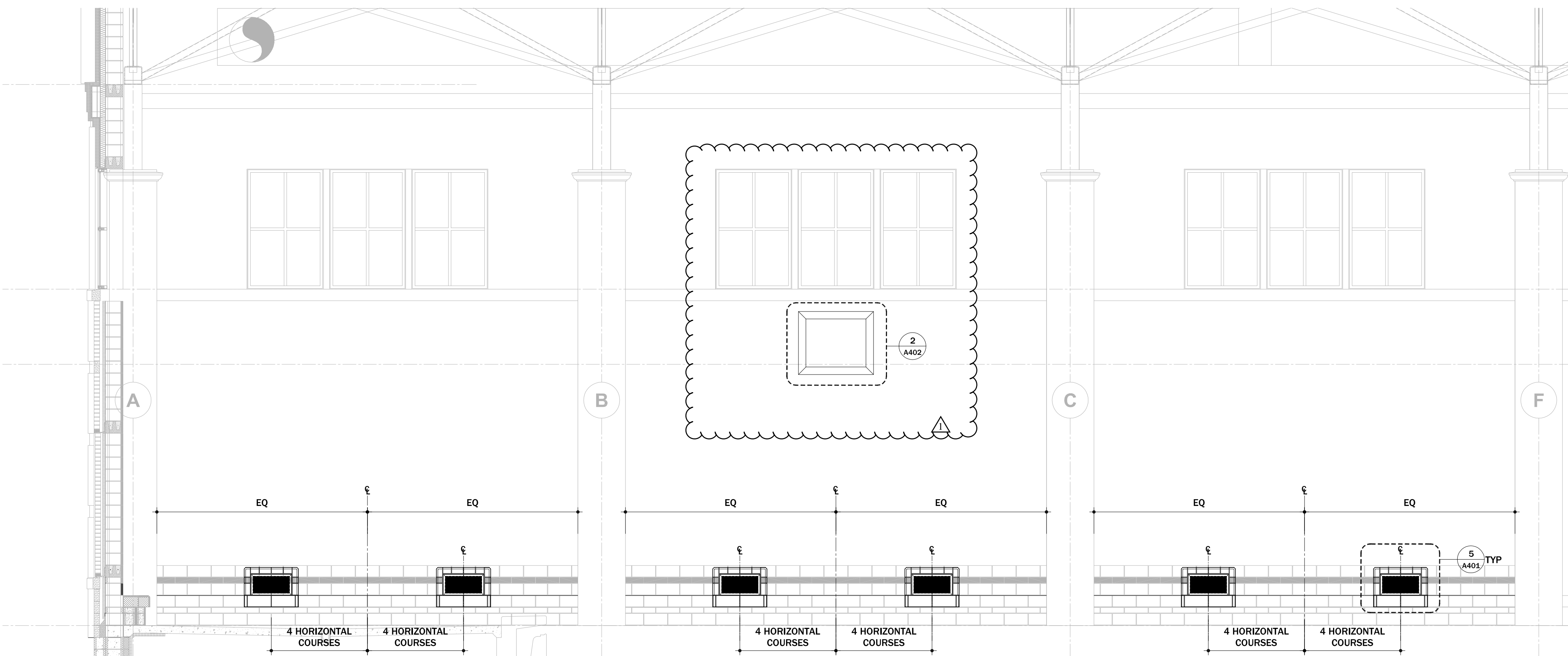
NOTE:
CONTRACTOR SHALL CHECK &
VERIFY ALL DIMENSIONS &
EXISTING CONDITIONS AT SITE.

REVISIONS		REVISIONS DATE
ADDENDUM 1		07-20-2020
BRINJAC ENGINEERING since 1955 14 North 2nd Street Harrisburg, PA 17101-1401 Phone: (717) 233-4502 Fax: (717) 233-4533 www.brinjac.com		
PROJECT NAME DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS" 24950 RIDING CENTER DR SOUTH RIDING, VA 20152		
DATE 06/25/2020		
DRAWN BY PA		
CHECKED/APPROVED BY KR		
BRINJAC PROJ. NUMBER 19.0003092.000		
DRAWING NUMBER COMP POOL DEMO WORK - ARCHITECTURAL		
A-200		

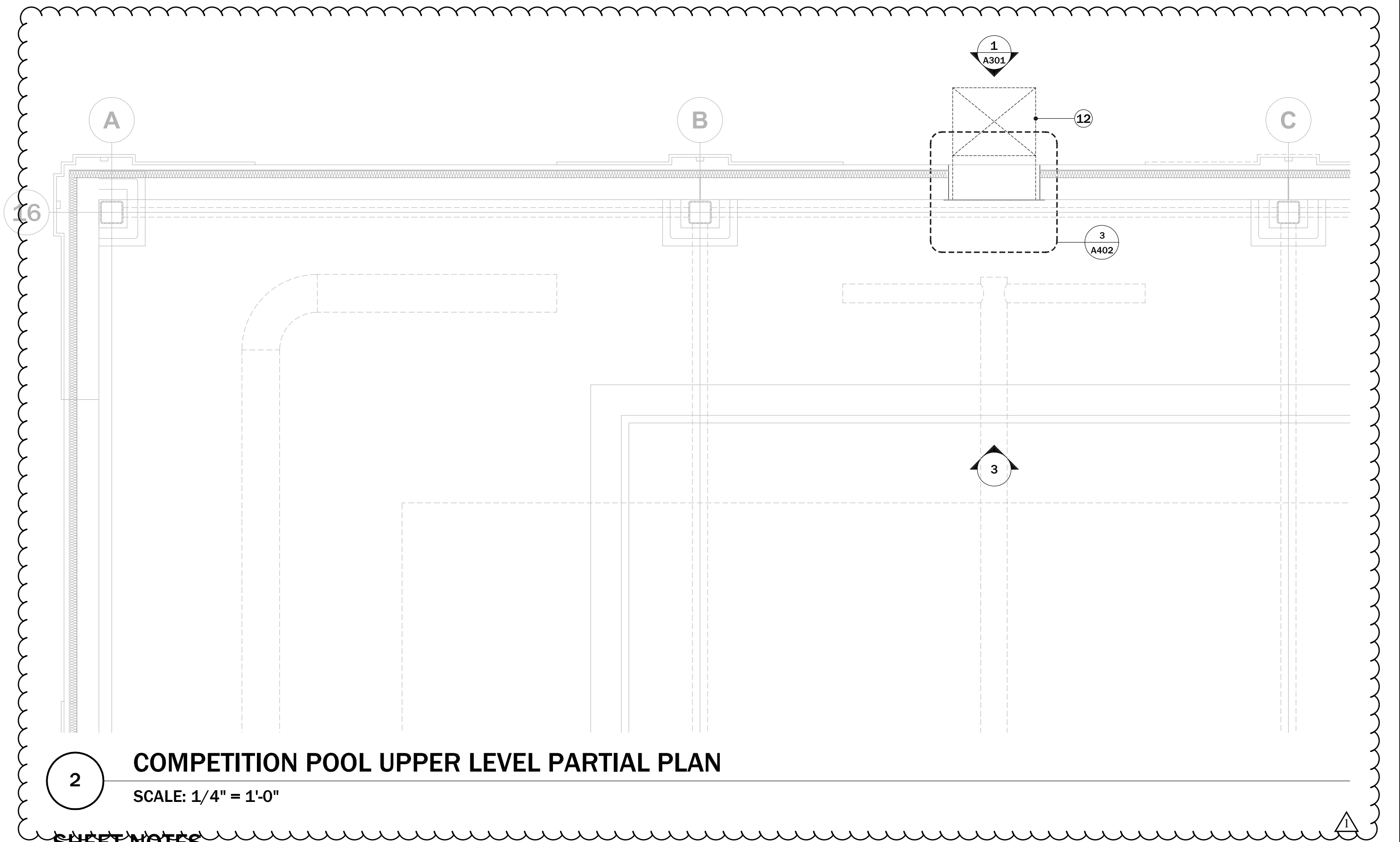
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1 COMPETITION POOL LOWER LEVEL PARTIAL PLAN
SCALE: 1/4" = 1'-0"



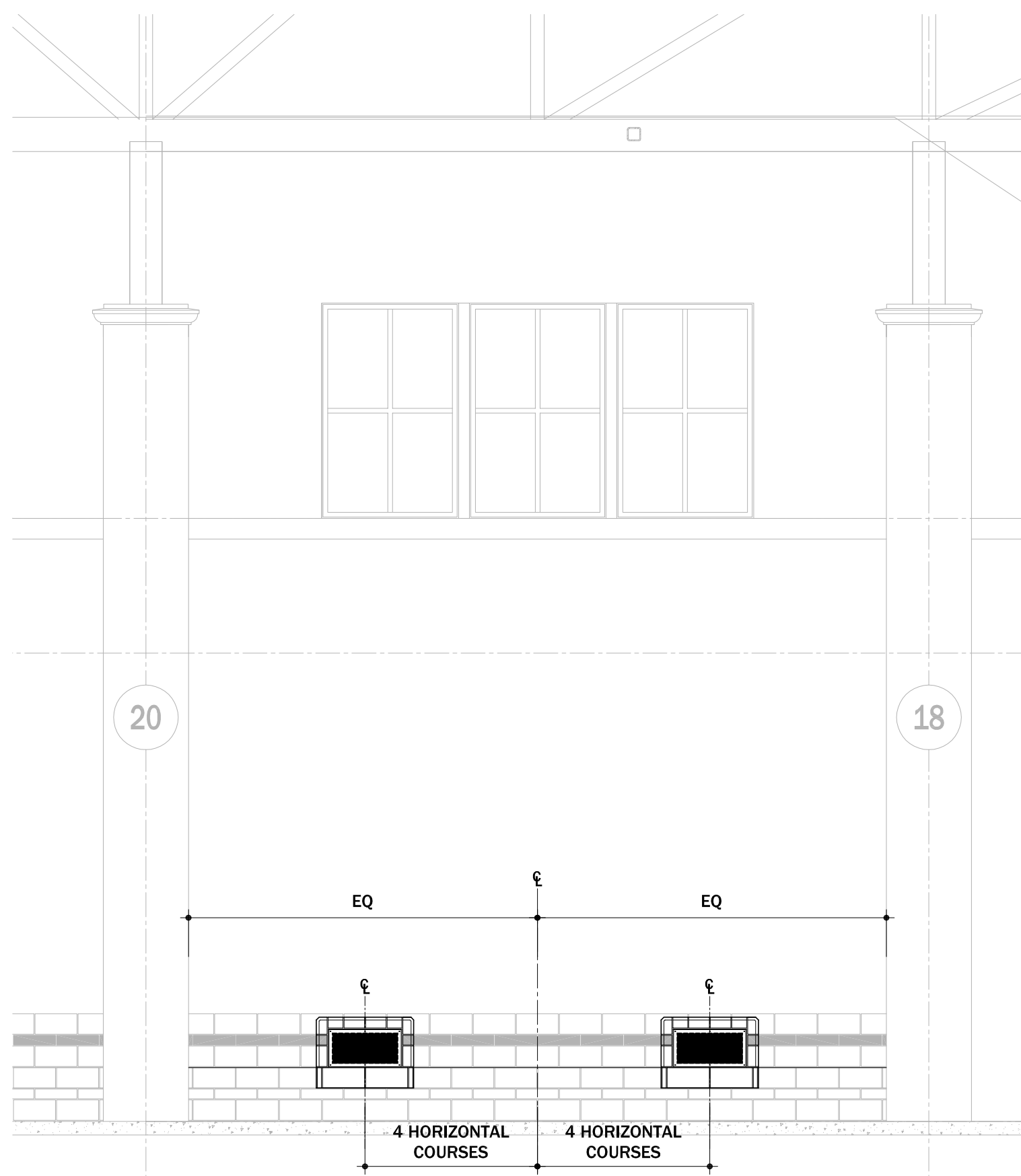
3 ELEVATION
SCALE: 1/4" = 1'-0"



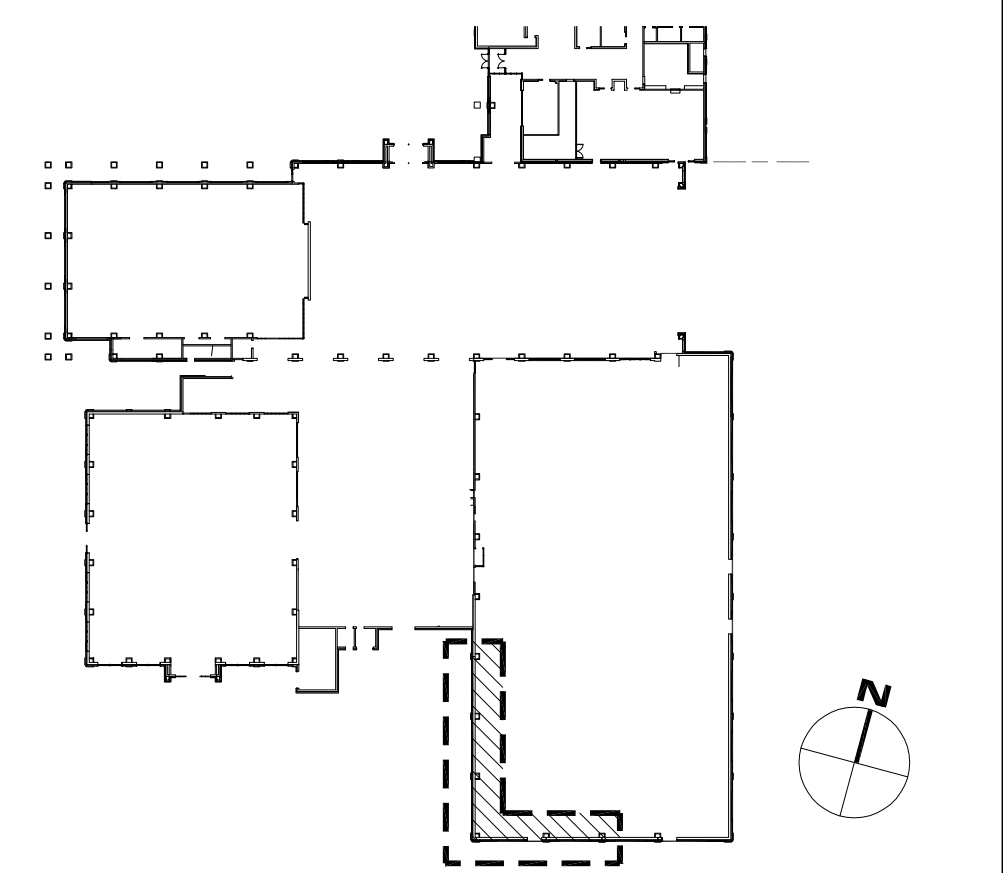
2 COMPETITION POOL UPPER LEVEL PARTIAL PLAN
SCALE: 1/4" = 1'-0"

SHEET NOTES

- GROUND FACE MASONRY, TRENDWYTH TRENDSTONE PLUS, COLOR MADISON, COORDINATING TRENDWYTH MORTAR COLOR TO MATCH EXISTING
- GROUND FACE MASONRY, TRENDWYTH TRENDSTONE PLUS, COLOR HAWTHORN, COORDINATING TRENDWYTH MORTAR COLOR TO MATCH EXISTING
- 1 1/2 X 1 1/2 X 1/8 ST STL WELDED ANGLE SUPPORT FRAME
- 3/4 HDO PLYWOOD SUBSTRATE ATTACHED TO WITH ST STL C/S SCREWS
- MASONRY ANCHOR SCREW
- TITUS CT-PP-O LINEAR DIFFUSER WITH TYPE 14 BORDER, SEE MECH
- 1/2 HDO PLYWOOD SUBSTRATE ATTACHED TO WITH ST STL C/S SCREWS
- ST STL COUNTER FLASHING RECEIVER
- ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SURROUND HEADER, SILL+JAMBS
- ROD + CAULK
- FIELD CUT 3/8X1 1/2 REGLET WITH LEAD WEDGE+CAULK
- INSULATED DUCT ASSEMBLY, SEE MECH
- EXISTING CMU/ BRICK REMOVED
- METAL TRIM FRAME SEE MECH
- (E) CMU COURSE TO REMAIN
- (E) CMU COURSE TO REMAIN, CMU TO BE MODIFIED IN PLACE TO ALLOW FOR PLACEMENT OF STRUCTURAL REINFORCEMENT+GROUTED SOLID, SEE S100
- NEW OPENING TO EXISTING WALL ASSEMBLY
- EXISTING CAST STONE WATERTABLE+COURSE BELOW, CAREFULLY CUT AND REMOVED TO ACCEPT NEW DUCTWORK, CONTRACTOR TO VIF DUCT ASSEMBLY DIMENSIONS, TOP OF DUCTWORK ASSEMBLY TO ALIGN WITH TOP OF WATERTABLE
- UNDERSIDE OF BOND BEAM
- ST STL CRAMP STRAP
- GROUND FACE MASONRY, TRENDWYTH TRENDSTONE PLUS TO MATCH EXISTING, COORDINATING TRENDWYTH MORTAR COLOR TO MATCH EXISTING
- FOLD LINE
- EXPOSED FACES OF (3) TO BE PAINTED TO MATCH (6)
- NEW STRUCT STEEL, SEE 4/S100
- NEW REINFORCEMENT, SEE 4/S100
- REMOVE CENTER PORTION OF GROUT+CMU WEBS SEE S100
- BLOCKING AS REQUIRED



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



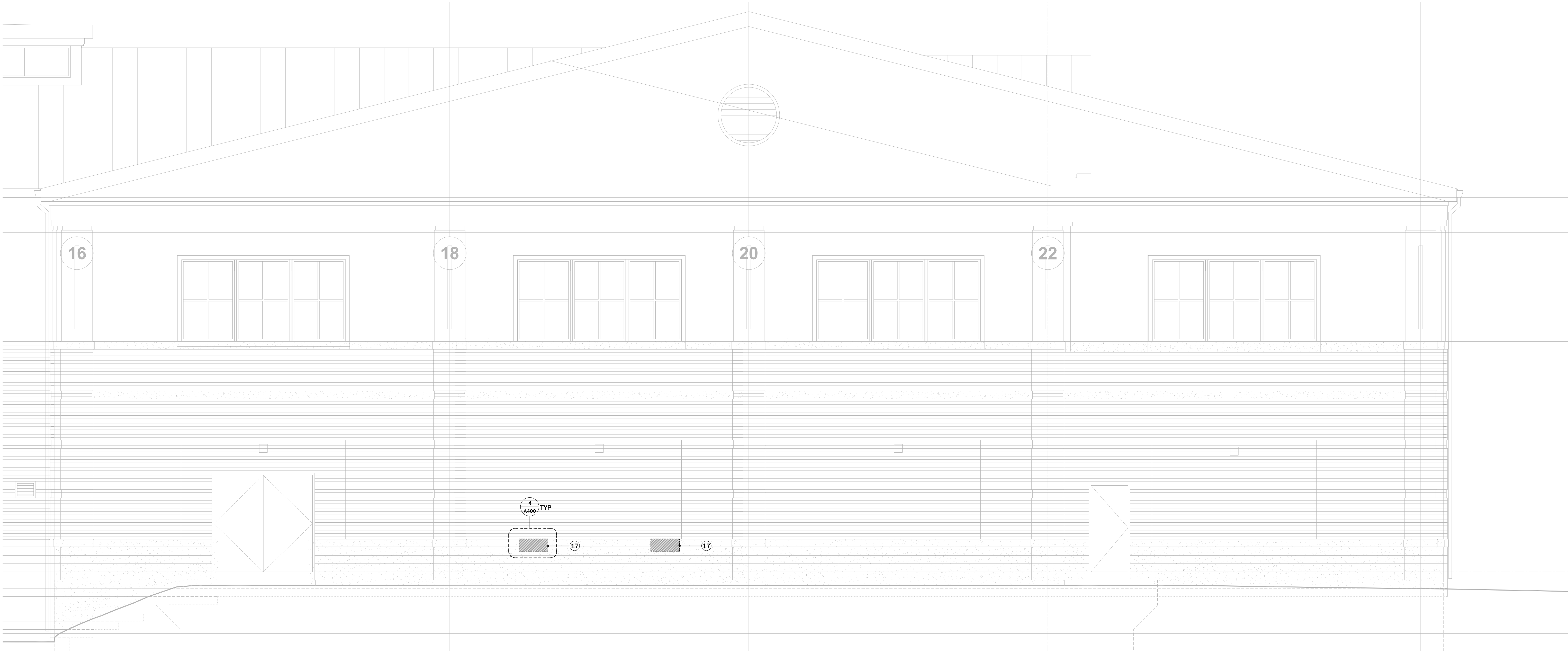
BID SET

NOTE:
CONTRACTOR SHALL CHECK &
VERIFY ALL DIMENSIONS &
EXISTING CONDITIONS AT SITE.

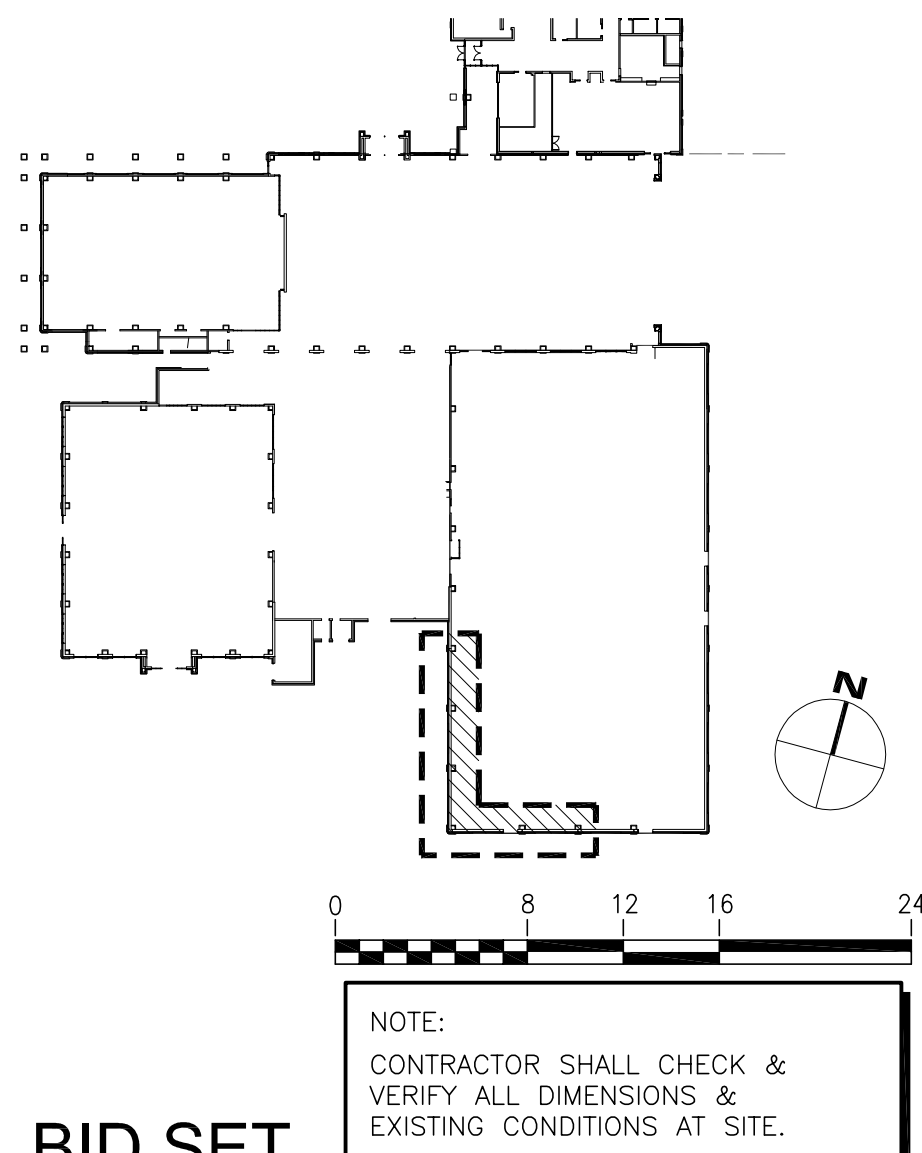
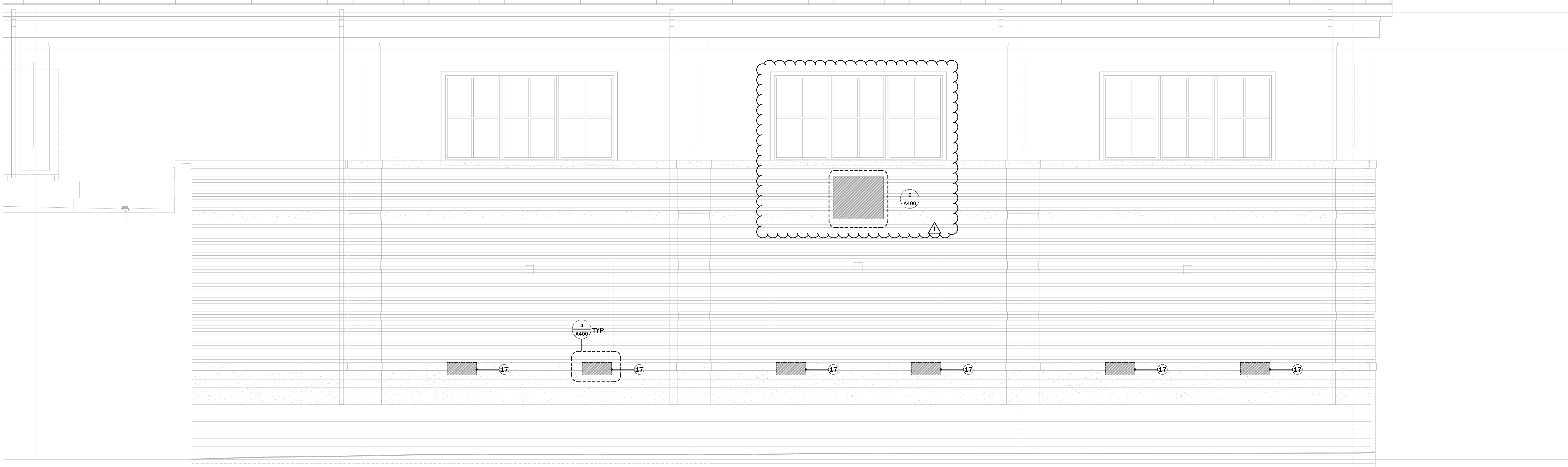
REVISIONS DATE	07-20-2020
REVISIONS	ADDENDUM 1
CONSULTANT	KARL RIEDEL ARCHITECTURE, PC 4 Loudoun Street, SW Leesburg, Virginia 20175 (703) 777-8300 www.karlriedel.com
PROJECT NAME	DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS"
DATE	06/25/2020
DRAWN BY	PA
CHECKED/APPROVED BY	KR
BRINJAC PROJ. NUMBER	19.0003092.000
DRAWING NUMBER	COMP POOL NEW WORK - ARCHITECTURAL
SEAL	
BRINJAC ENGINEERING	since 1955 114 North 2nd Street Harrisburg, PA 17101-1401 Phone: (717) 233-4502 Fax: (717) 233-4553 www.brinjac.com
24950 RIDING CENTER DR SOUTH RIDING, VA 20152	
A-201	

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



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



SHEET NOTES

- 1 GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS TO MATCH EXISTING, COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- 2 GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS, COLOR HAWTHORN, COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- 3 1 1/2X 1 1/2X 1/8 ST STL WELDED ANGLE SUPPORT FRAME
- 4 3/4 HDO PLYWOOD SUBSTRATE ATTACHED TO 3 WITH ST STL C/S SCREWS
- 5 MASONRY ANCHOR SCREW
- 6 TITUS CT-PP-O LINEAR GRILLE WITH TYPE 14 BORDER. SEE MECH
- 7 1/2 HDO PLYWOOD SUBSTRATE ATTACHED TO 3 WITH ST STL C/S SCREWS
- 8 ST STL COUNTER FLASHING RECEIVER
- 9 ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SURROUND HEADER, SILL+JAMES
- 10 ROD +CAULK
- 11 FIELD CUT 3/8X1 1/2 REGLET WITH LEAD WEDGE+CAULK
- 12 INSULATED DUCT ASSEMBLY. SEE MECH
- 13 EXISTING CMU/BRICK REMOVED
- 14 METAL TRIM FRAME. SEE MECH
- 15 (E) CMU COURSE TO REMAIN
- 16 (E) CMU COURSE TO REMAIN. CMU TO BE MODIFIED IN PLACE TO ALLOW FOR PLACEMENT OF STRUCTURAL REINFORCEMENT-GROUTED SOLID. SEE 4/2100
- 17 NEW OPENING TO EXISTING WALL ASSEMBLY
- 18 EXISTING CAST STONE WATERTABLE+ COURSE BELOW. CAREFULLY CUT AND REMOVED TO ACCEPT NEW DUCTWORK. CONTRACTOR TO VIF DUCT ASSEMBLY DIMENSIONS. TOP OF DUCTWORK ASSEMBLY TO ALIGN WITH TOP OF WATERTABLE.
- 19 UNDERSIDE OF BOND BEAM
- 20 ST STL CRAMP STRAP
- 21 GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS TO MATCH EXISTING, COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- 22 FOLD LINE
- 23 EXPOSED FACES OF 2 TO BE PAINTED TO MATCH 6
- 24 NEW STRUCT STEEL. SEE 4/S100
- 25 NEW REINFORCEMENT. SEE 4/S100
- 26 REMOVE CENTER PORTION OF GROUT+CMU WEBS SEE S100
- 27 BLOCKING AS REQUIRED

PROJECT NAME

DULLES SOUTH REC CENTER PHASE 4 - HVAC
"COMPETITION POOL - DOAS"
24950 RIDING CENTER DR
SOUTH RIDING, VA 20152

DATE

06/25/2020

DRAWN BY

PA

CHECKED/APPROVED BY

KR

BRINJAC PROJ. NUMBER

19.0003092.000

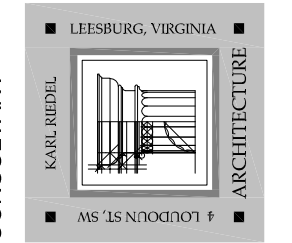
DRAWING NUMBER

EXTERIOR
DEMO WORK -
ARCHITECTURAL

A-300

SEAL

CONSULTANT



KARL RIEDEL
ARCHITECTURE, INC.
4 Loudoun Street, SW
Lexington, Virginia 20175
(703) 777-7772
www.karlriedel.com

REVISIONS

ADDENDUM 1

REVISIONS DATE

07-20-2020

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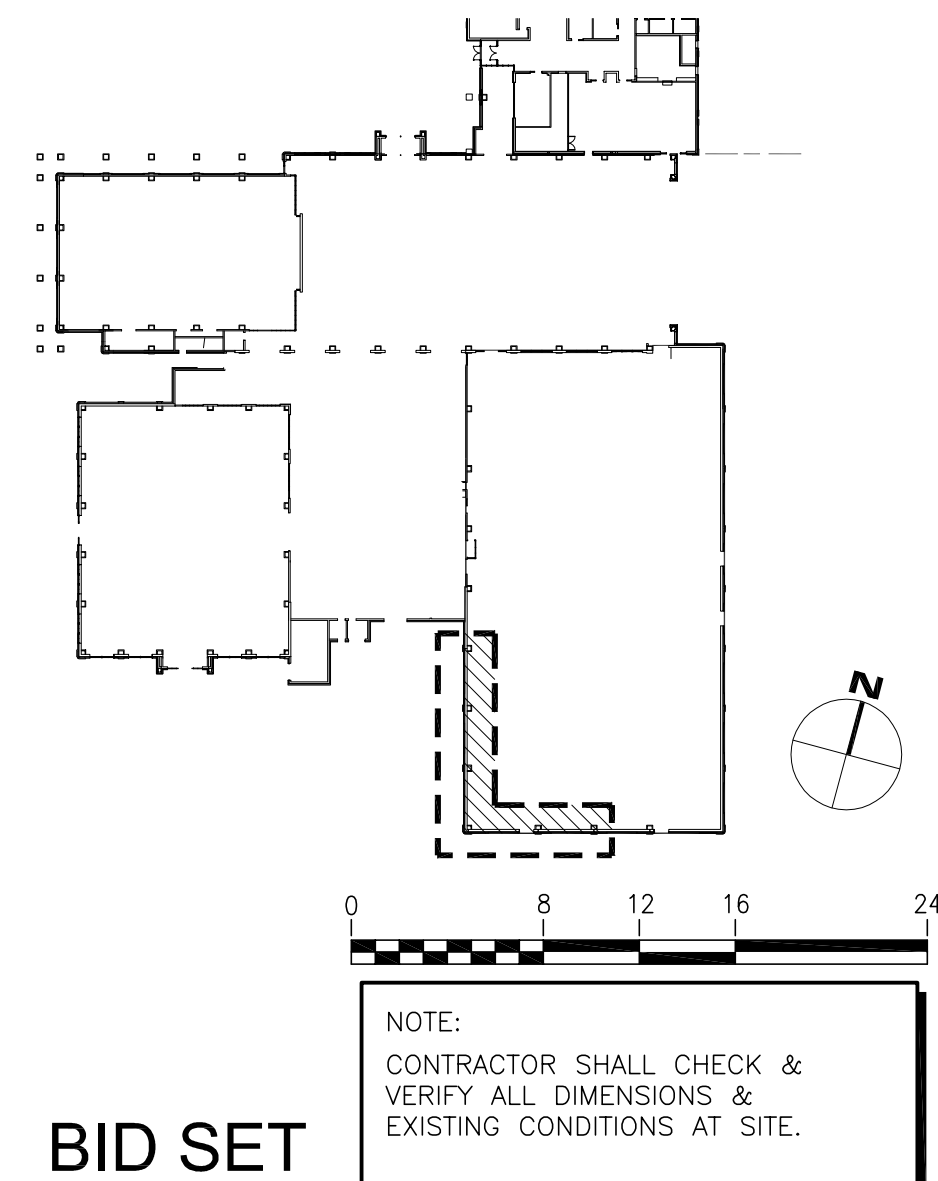
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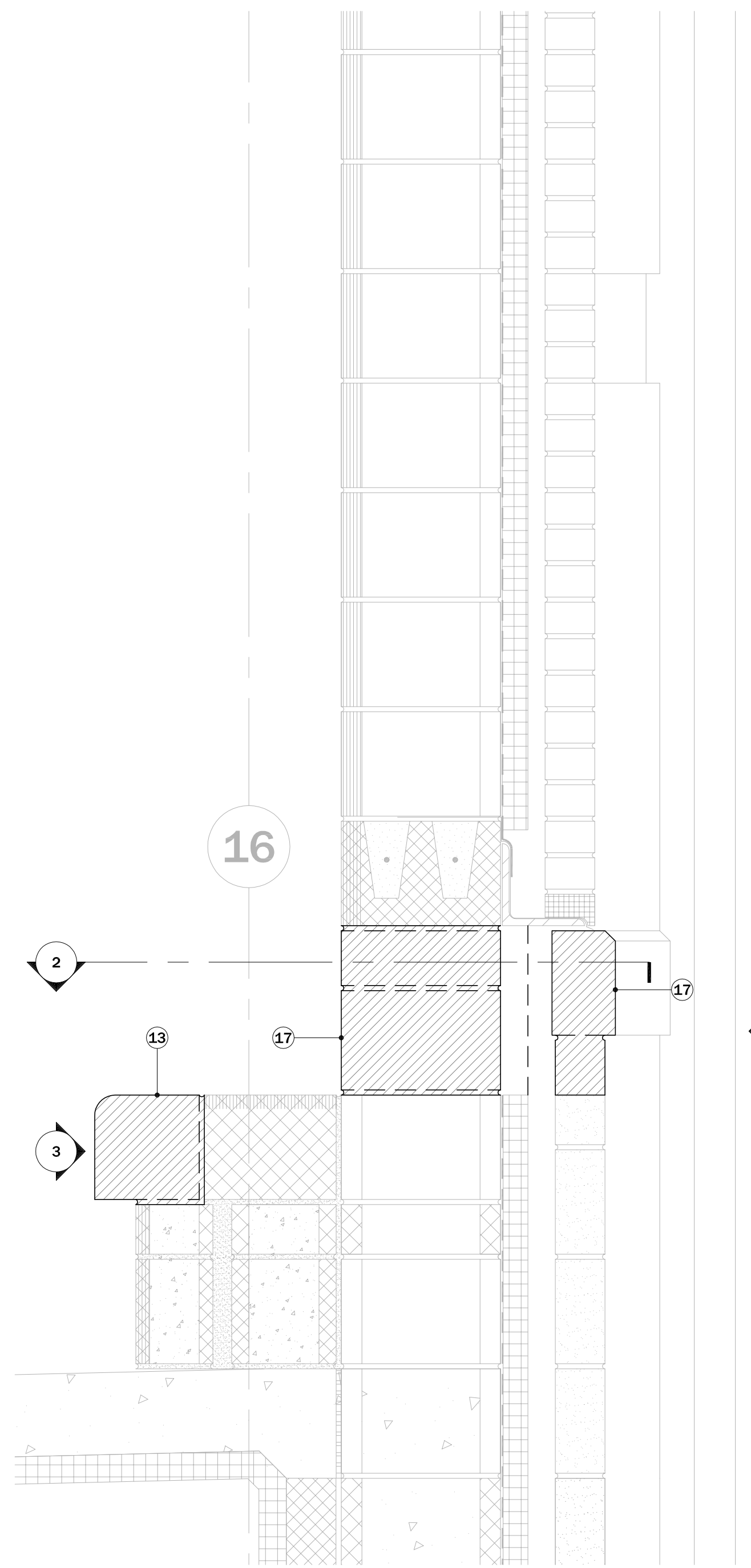
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SHEET NOTES

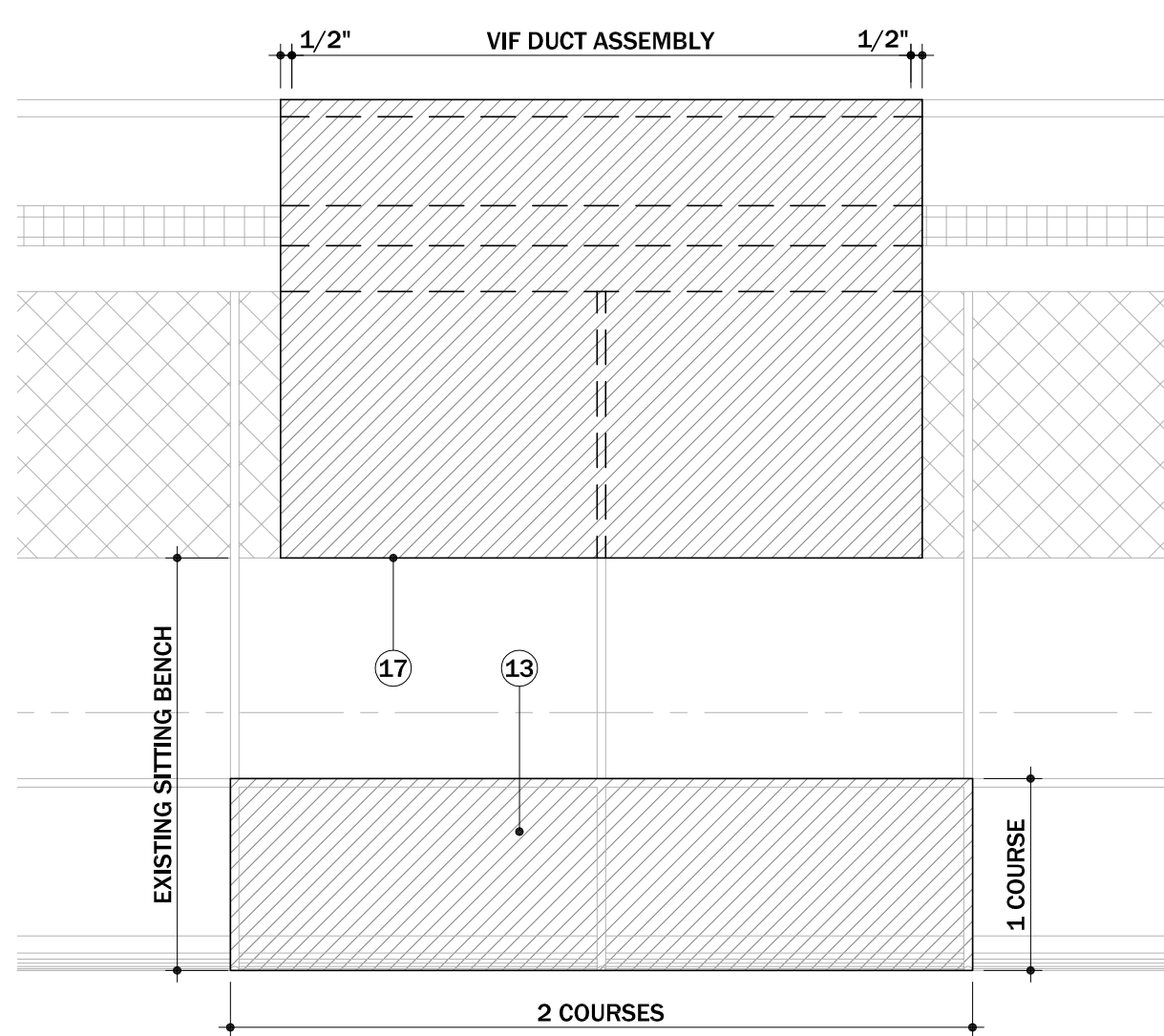
- GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS TO MATCH EXISTING, COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
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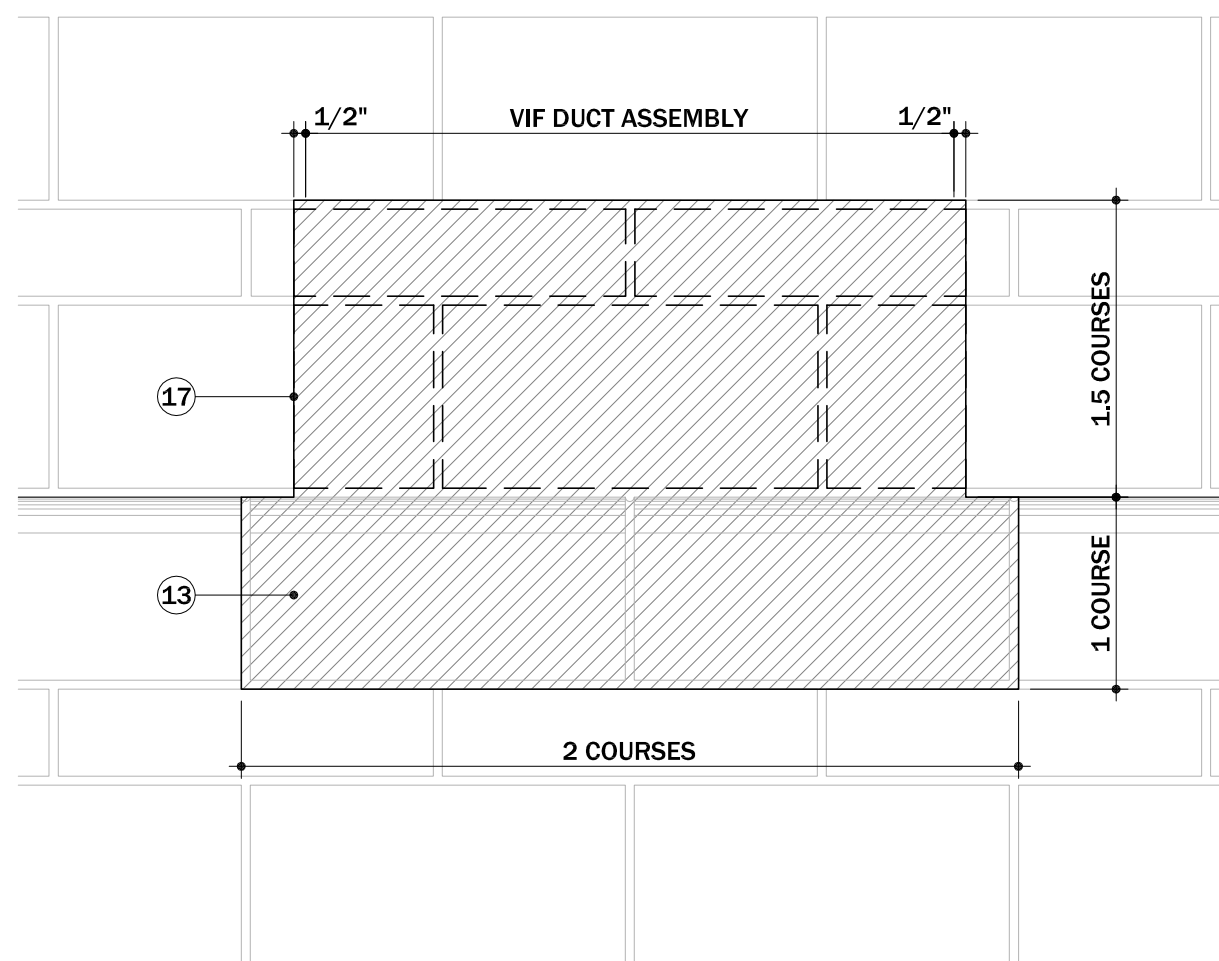
REVISIONS DATE	07-20-2020
REVISIONS	ADDENDUM 1
CONSULTANT	KARL RIEDEL ARCHITECTURE, PC 4 Loudoun Street, SW Leesburg, Virginia 20175 (703) 777-7722 www.karlriedel.com
PROJECT NAME	DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS" 24950 RIDING CENTER DR SOUTH RIDING, VA 20152
DATE	06/25/2020
DRAWN BY	PA
CHECKED/APPROVED BY	KR
BRINJAC PROJ. NUMBER	19.0003092.000
DRAWING NUMBER	EXTERIOR NEW WORK - ARCHITECTURAL
A-301	



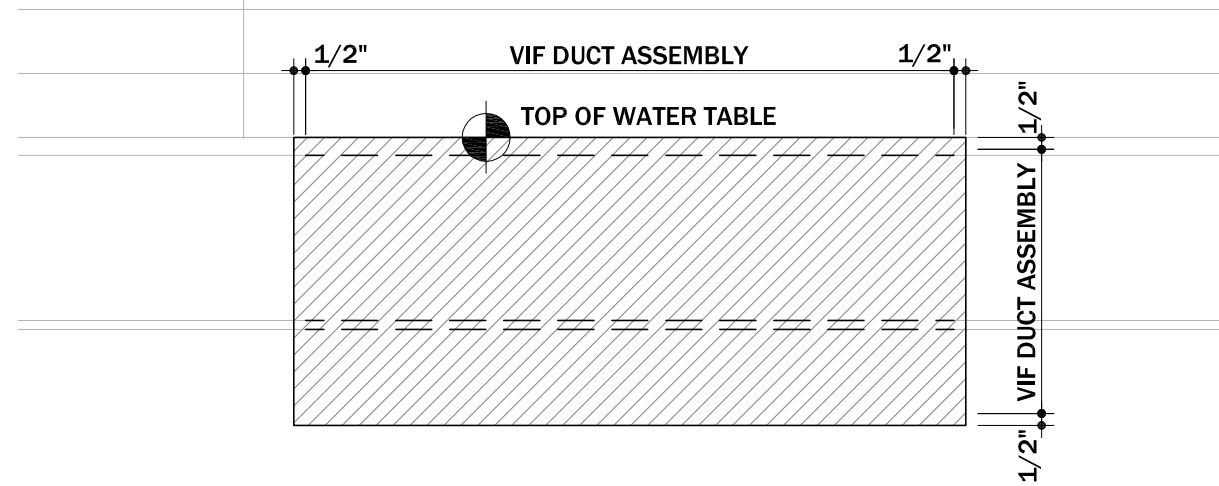
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SCALE: 1 1/2" = 1'-0"



2 PLAN SECTION
SCALE: 1 1/2" = 1'-0"



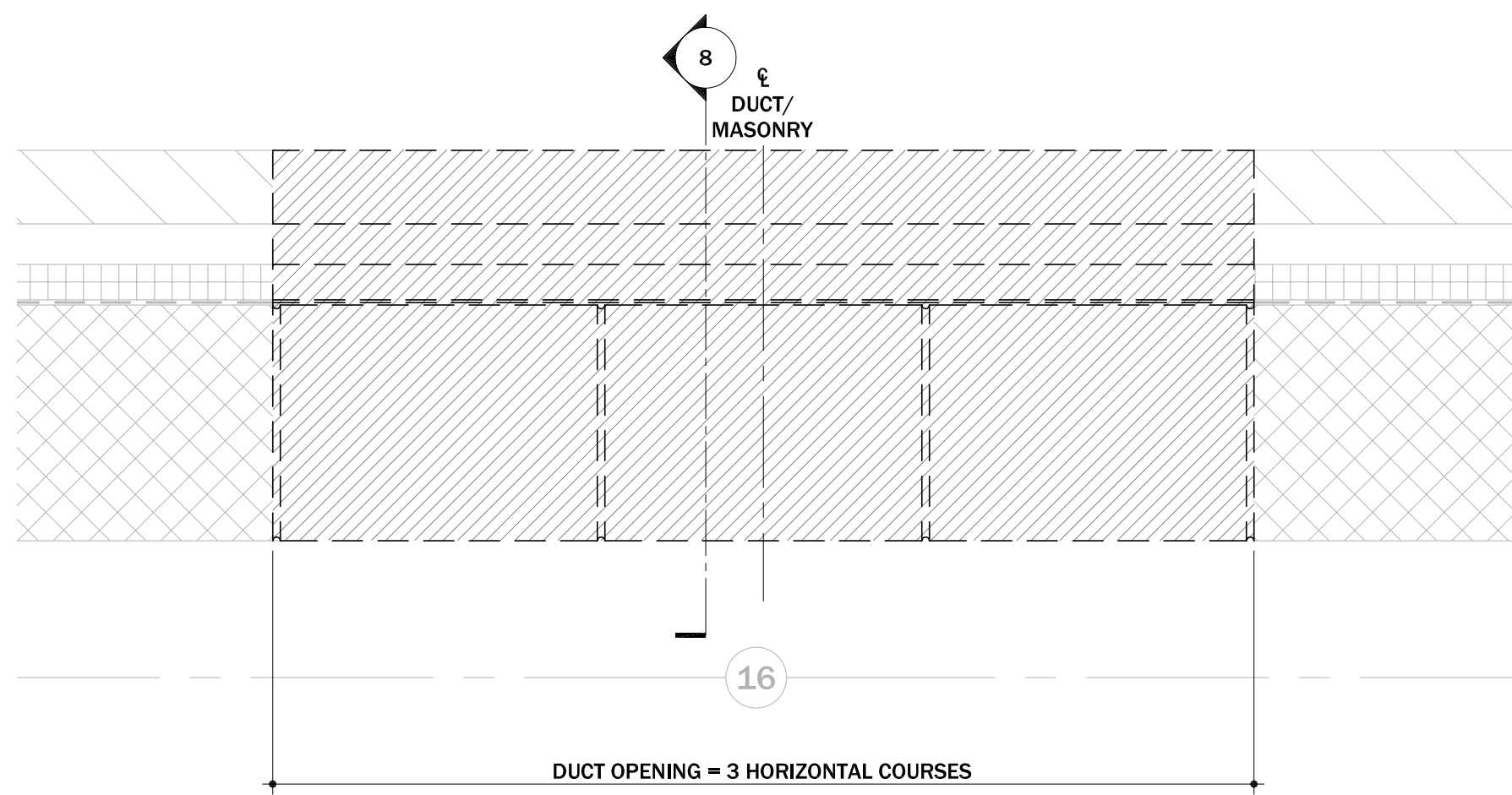
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SCALE: 1 1/2" = 1'-0"



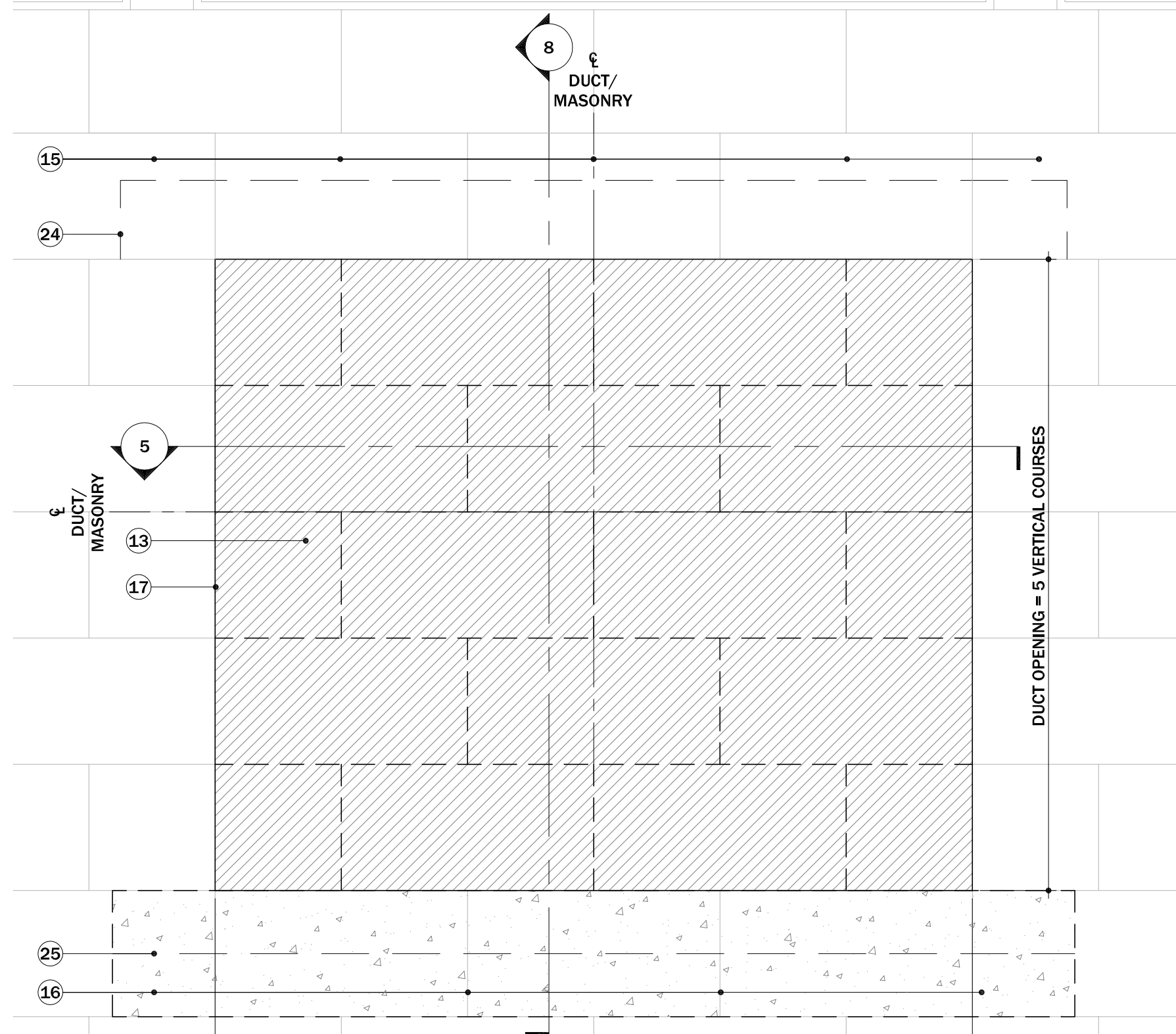
4 ELEVATION - EXTERIOR
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SHEET NOTES

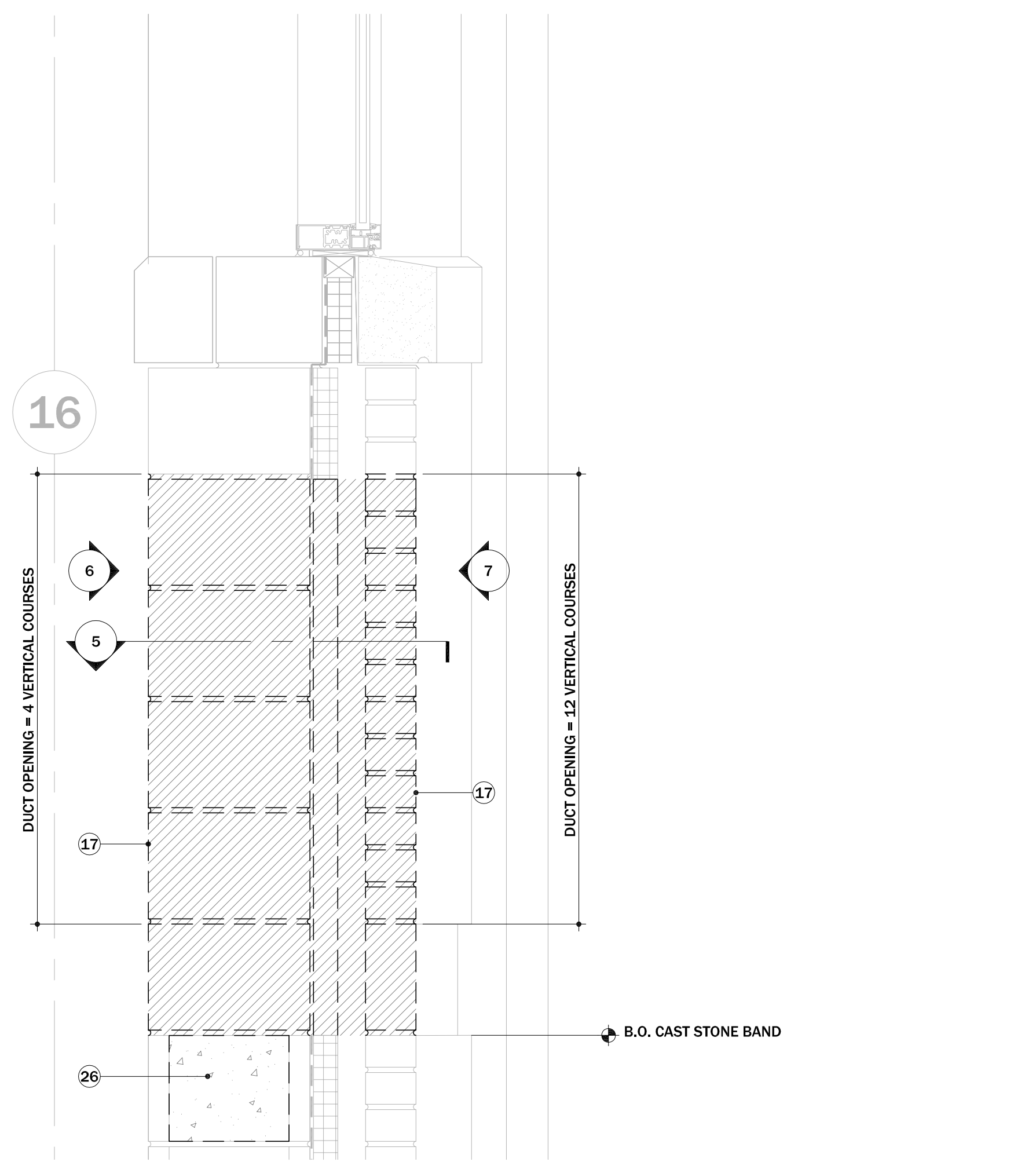
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- 3 1 1/2" X 1 1/2" X 1/8" ST STL WELDED ANGLE SUPPORT FRAME
- 4 3/4" HDO PLYWOOD SUBSTRATE ATTACHED TO (3) WITH ST STL C/S SCREWS
- 5 MASONRY ANCHOR SCREW
- 6 ITTUS CT-PP-0 LINEAR DIFFUSER WITH TYPE 14 BORDER. SEE MECH
- 7 1/2" HDO PLYWOOD SUBSTRATE ATTACHED TO (3) WITH ST STL C/S SCREWS
- 8 ST STL COUNTER FLASHING RECEIVER
- 9 ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SURROUND HEADER, SILL+JAMBS
- 10 ROD +CAULK
- 11 HELD OUT 3/8" X 1 1/2" REGLET WITH LEAD WEDGE+CAULK
- 12 INSULATED DUCT ASSEMBLY. SEE MECH
- 13 EXISTING CMU/BRICK REMOVED
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- 15 (E) CMU COURSE TO REMAIN
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- 27 BLOCKING AS REQUIRED



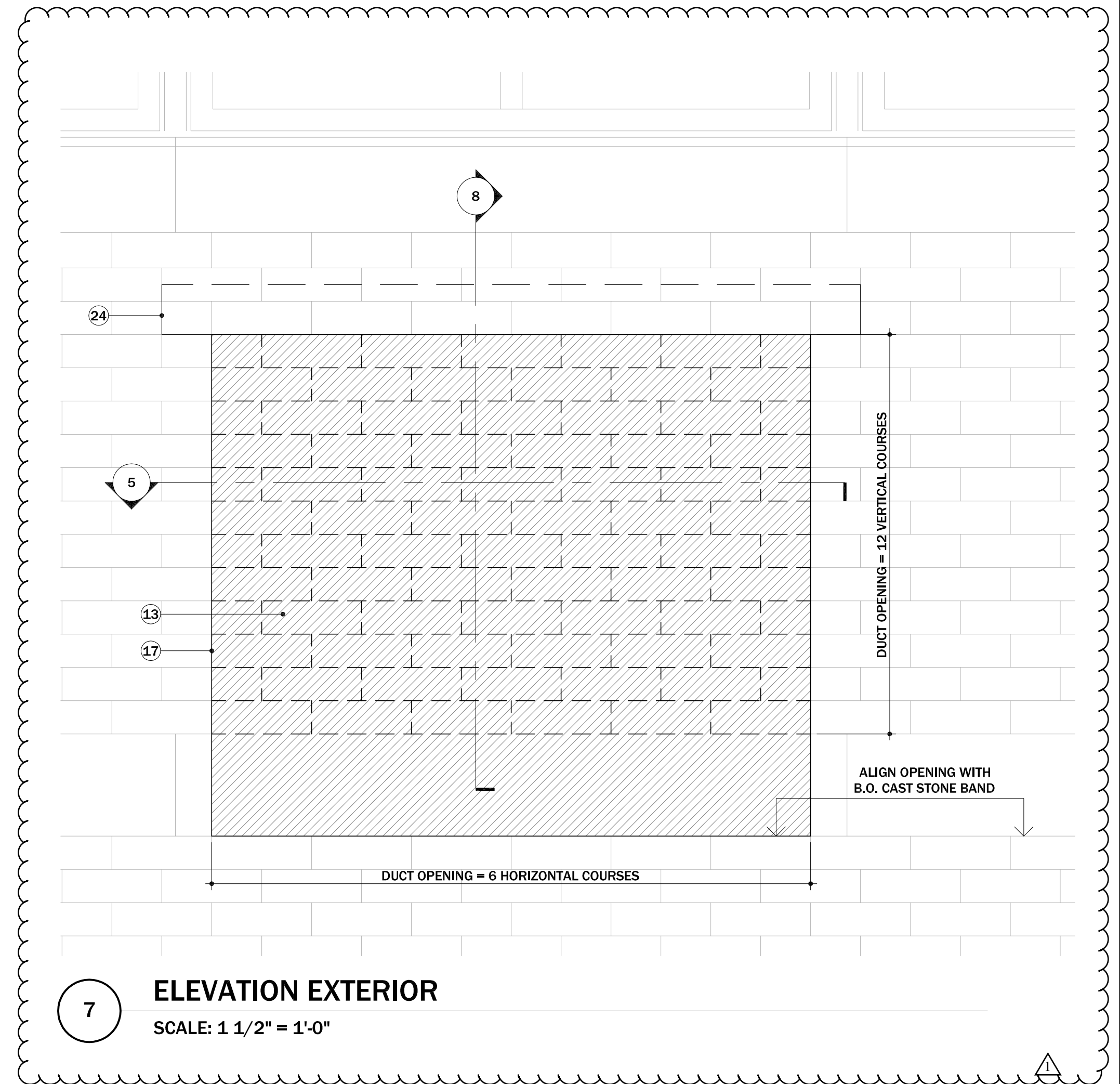
5 PLAN SECTION
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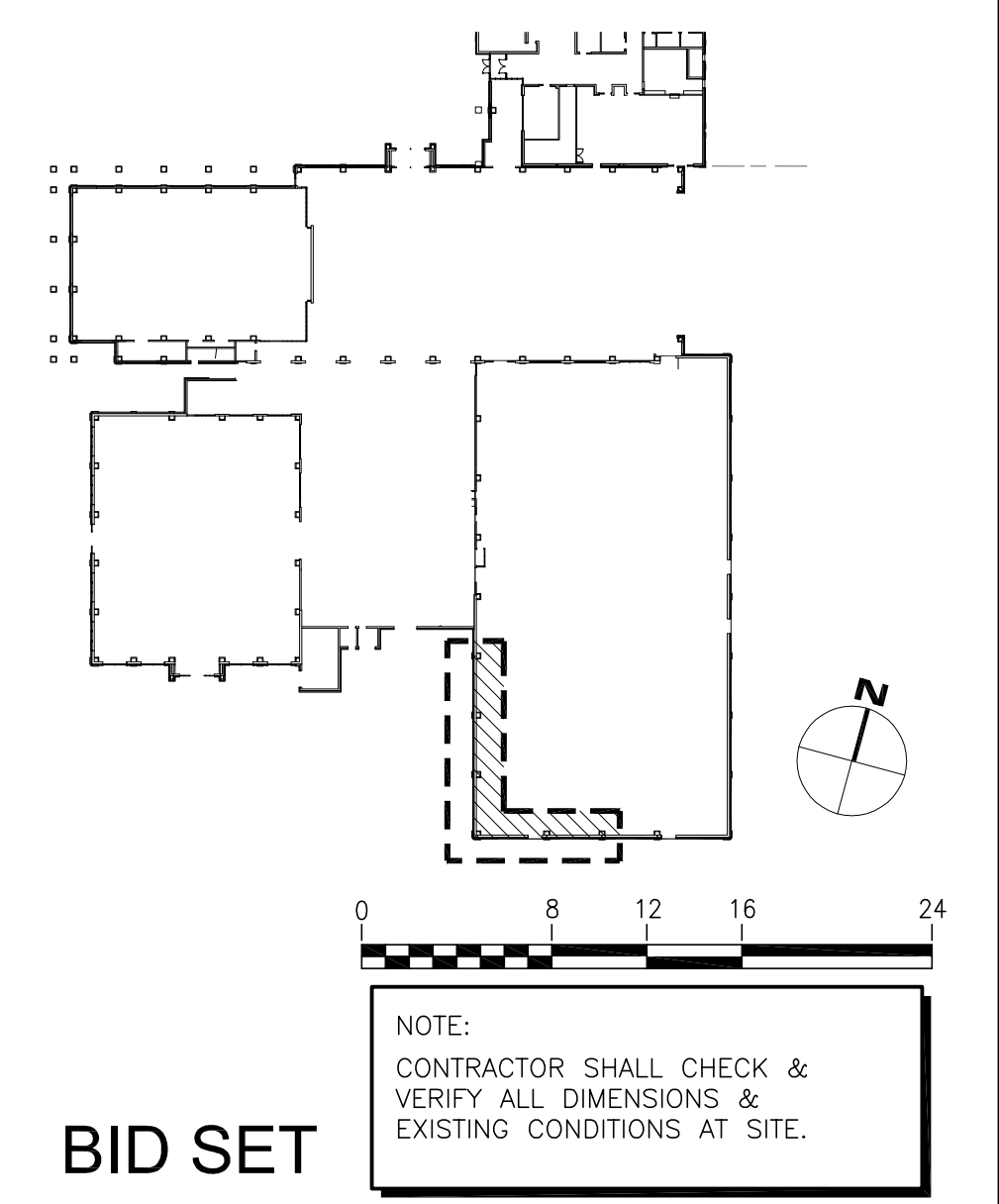
6 ELEVATION INTERIOR
SCALE: 1 1/2" = 1'-0"



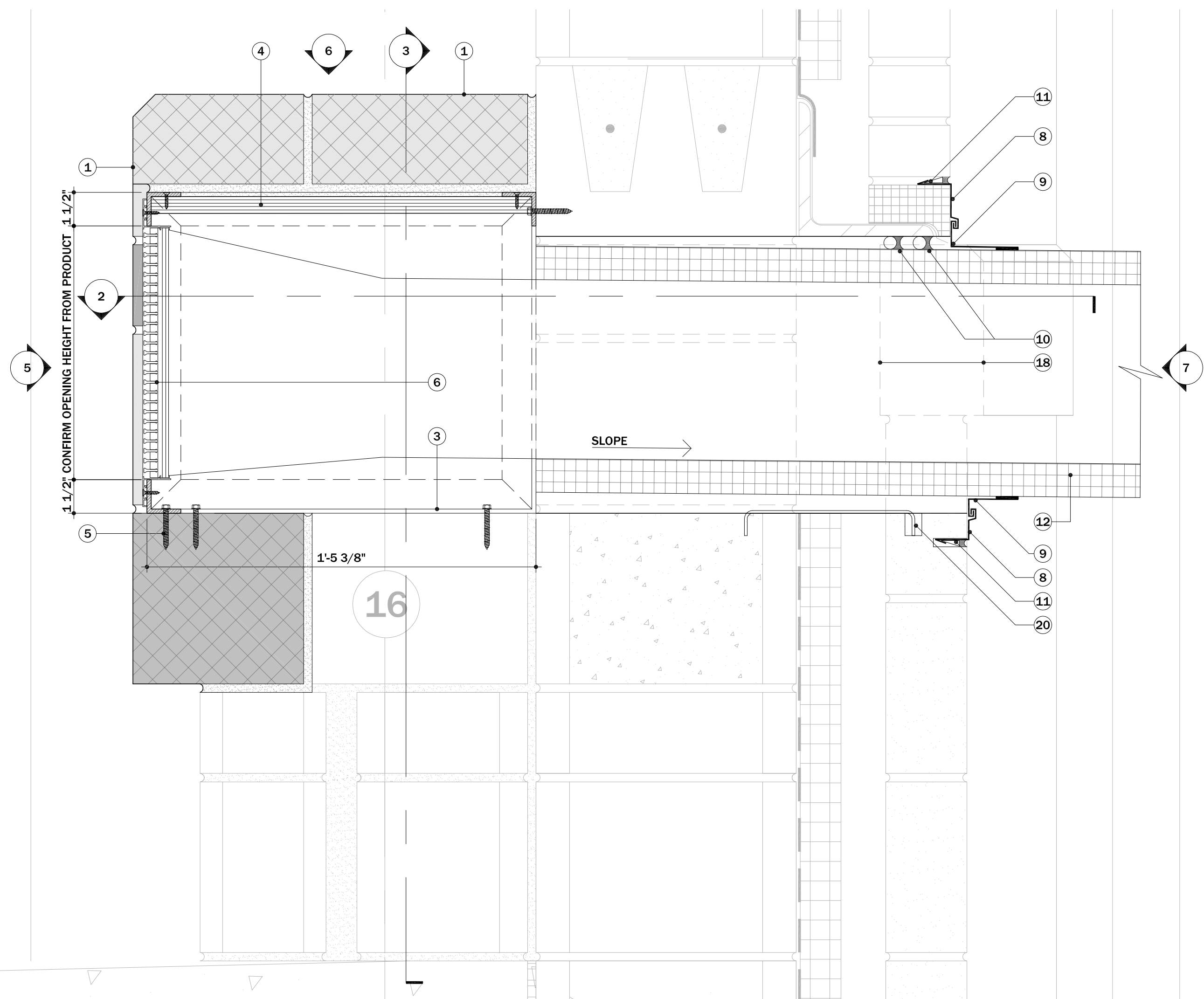
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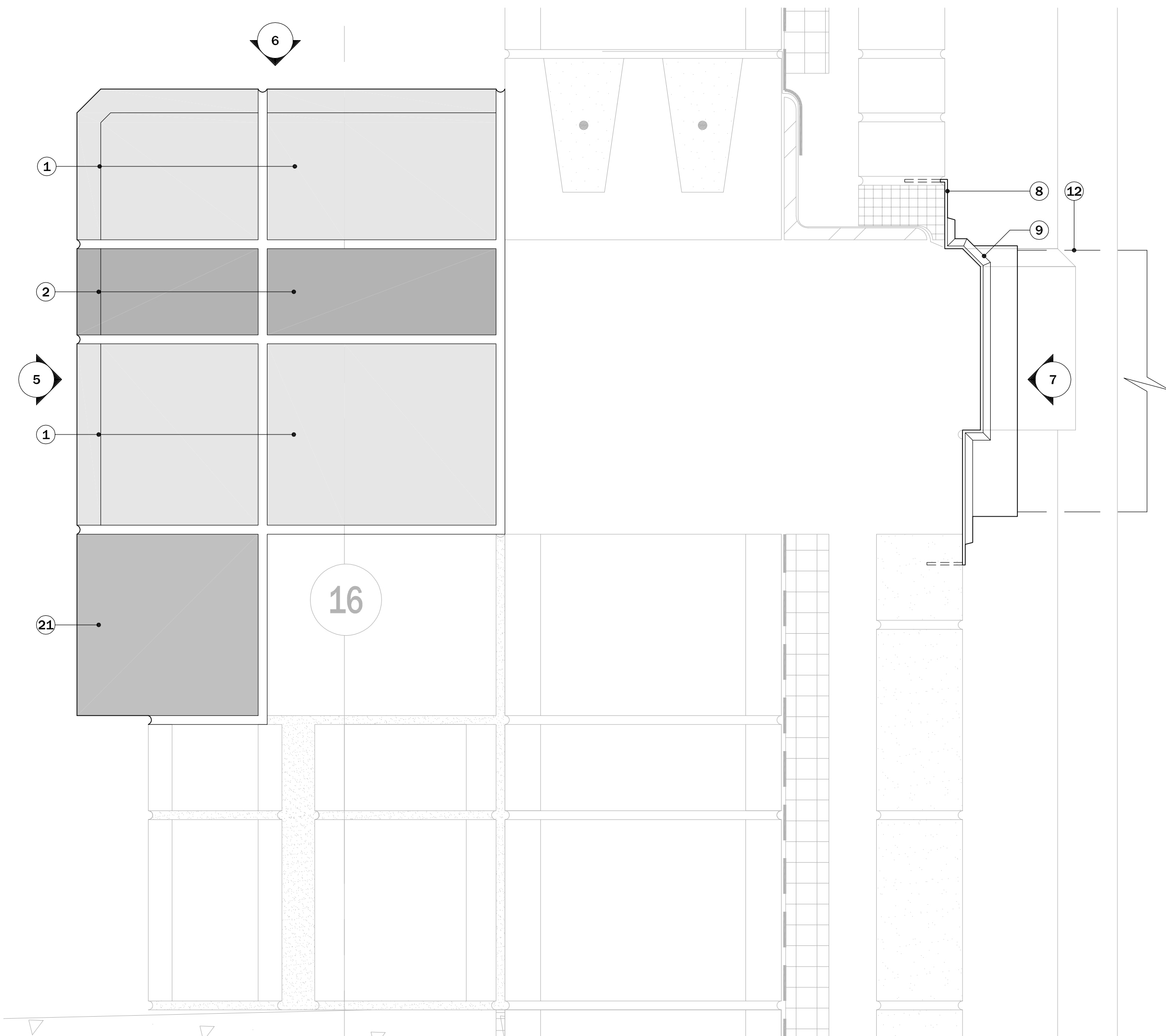
7 ELEVATION EXTERIOR
SCALE: 1 1/2" = 1'-0"



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1 SECTION
SCALE: 3" = 1'-0"



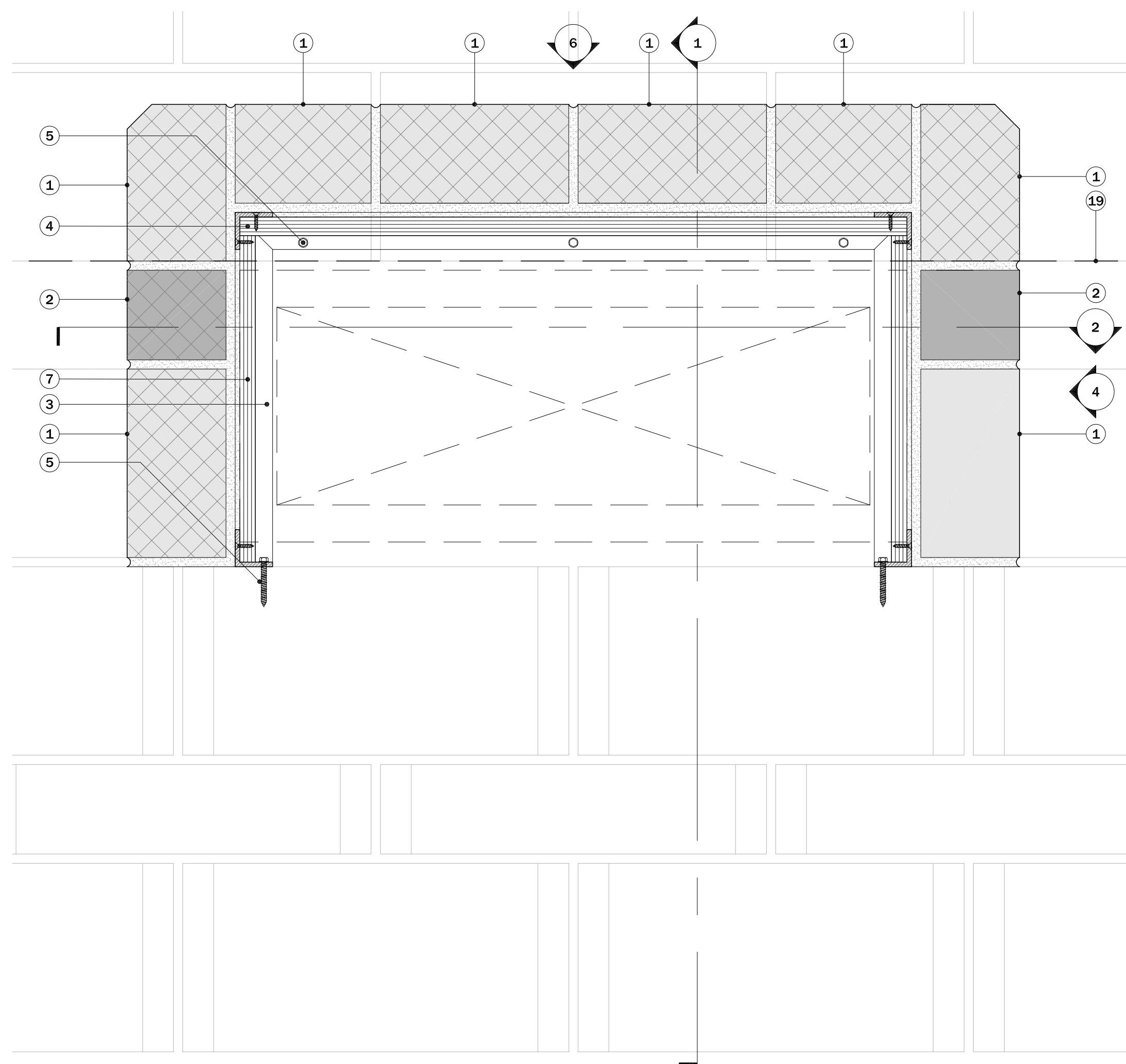
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SHEET NOTES

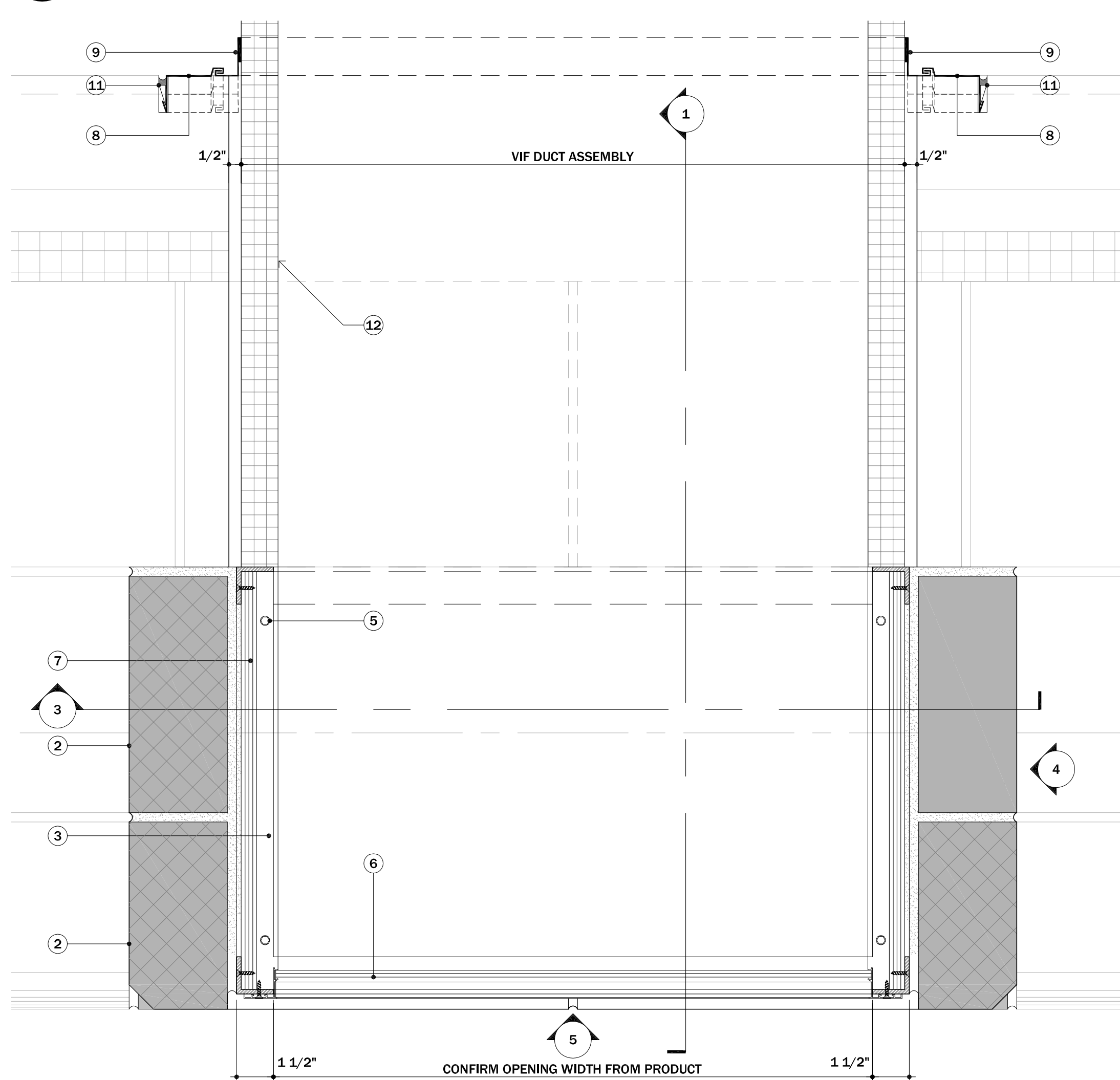
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- GROUND FACE MASONRY, TRENNWYTH TRENDSTONE PLUS, COLOR HAWTHORN, COORDINATING TRENNWYTH MORTAR COLOR TO MATCH EXISTING
- 1 1/2\"/>
- 3/4\"/>
- MASONRY ANCHOR SCREW
- TITUS CT-PP-Q LINEAR DIFFUSER WITH TYPE 14 BORDER. SEE MECH
- 1/2\"/>
- ST STL COUNTER FLASHING RECEIVER
- ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SURROUND HEADER, SILL+JAMBS
- ROD +CAULK
- FIELD CUT 3/8\"/>
- INSULATED DUCT ASSEMBLY. SEE MECH
- EXISTING CMU/BRICK REMOVED
- METAL TRIM FRAME. SEE MECH
- (E) CMU COURSE TO REMAIN
- (E) CMU COURSE TO REMAIN. CMU TO BE MODIFIED IN PLACE TO ALLOW FOR PLACEMENT OF STRUCTURAL REINFORCEMENT+GROUTED SOLID. SEE 4/S100
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- FOLD LINE
- EXPOSED FACES OF (3) TO BE PAINTED TO MATCH (6)
- NEW STRUCT STEEL. SEE 4/S100
- NEW REINFORCEMENT. SEE 4/S100
- REMOVE CENTER PORTION OF GROUT+CMU WEBS

GRAPHIC KEY

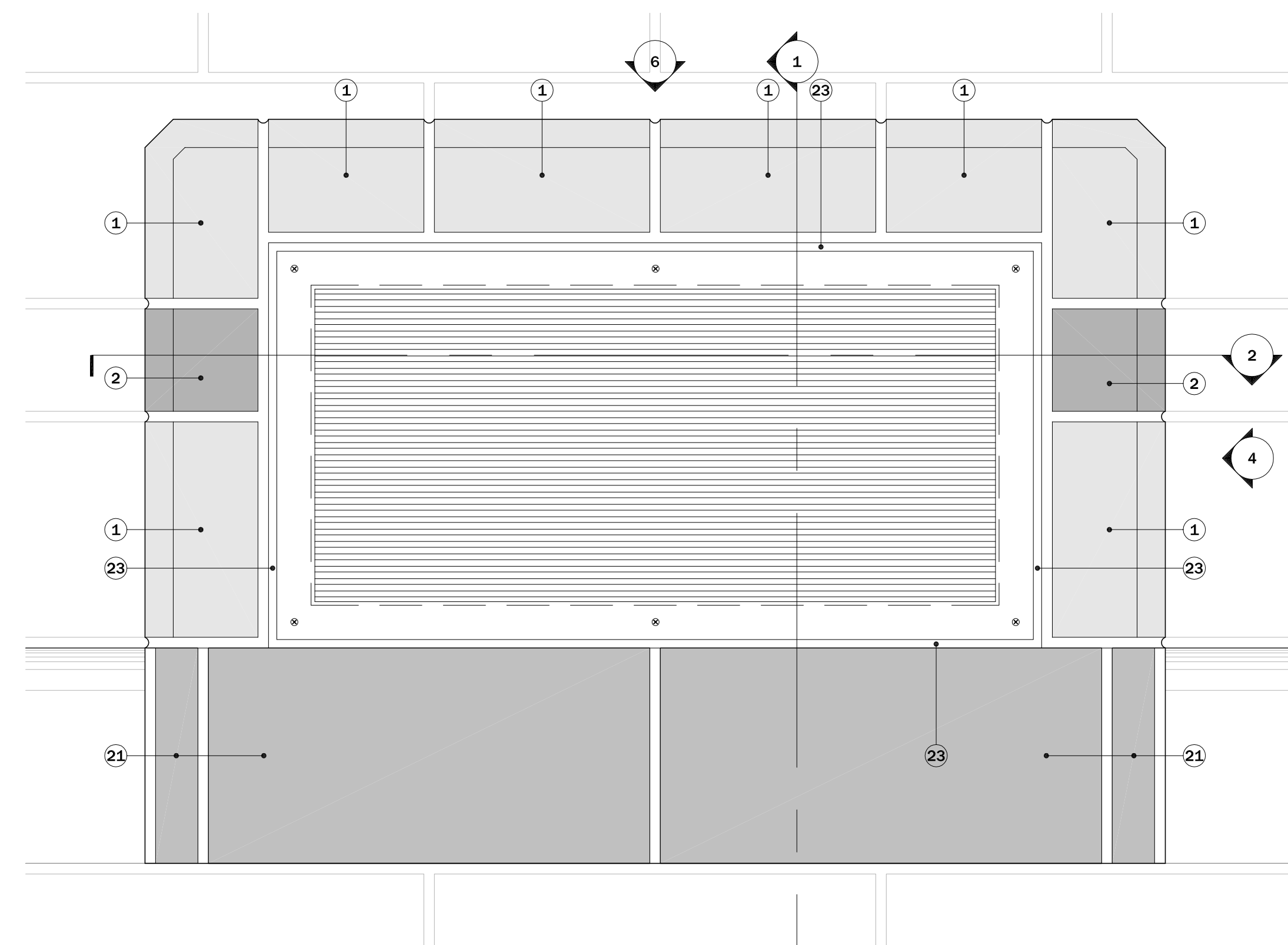
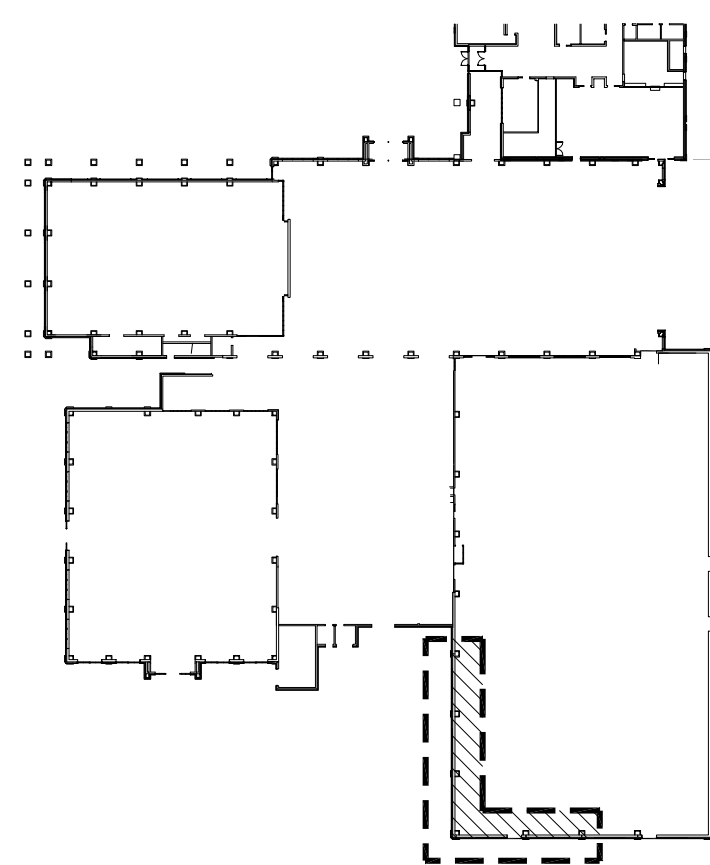
- MAIN FIELD BLOCK TYPE/COLOR
- HORIZONTAL ACCENT STRIP BLOCK TYPE/COLOR
- SITTING BENCH BLOCK TYPE/COLOR



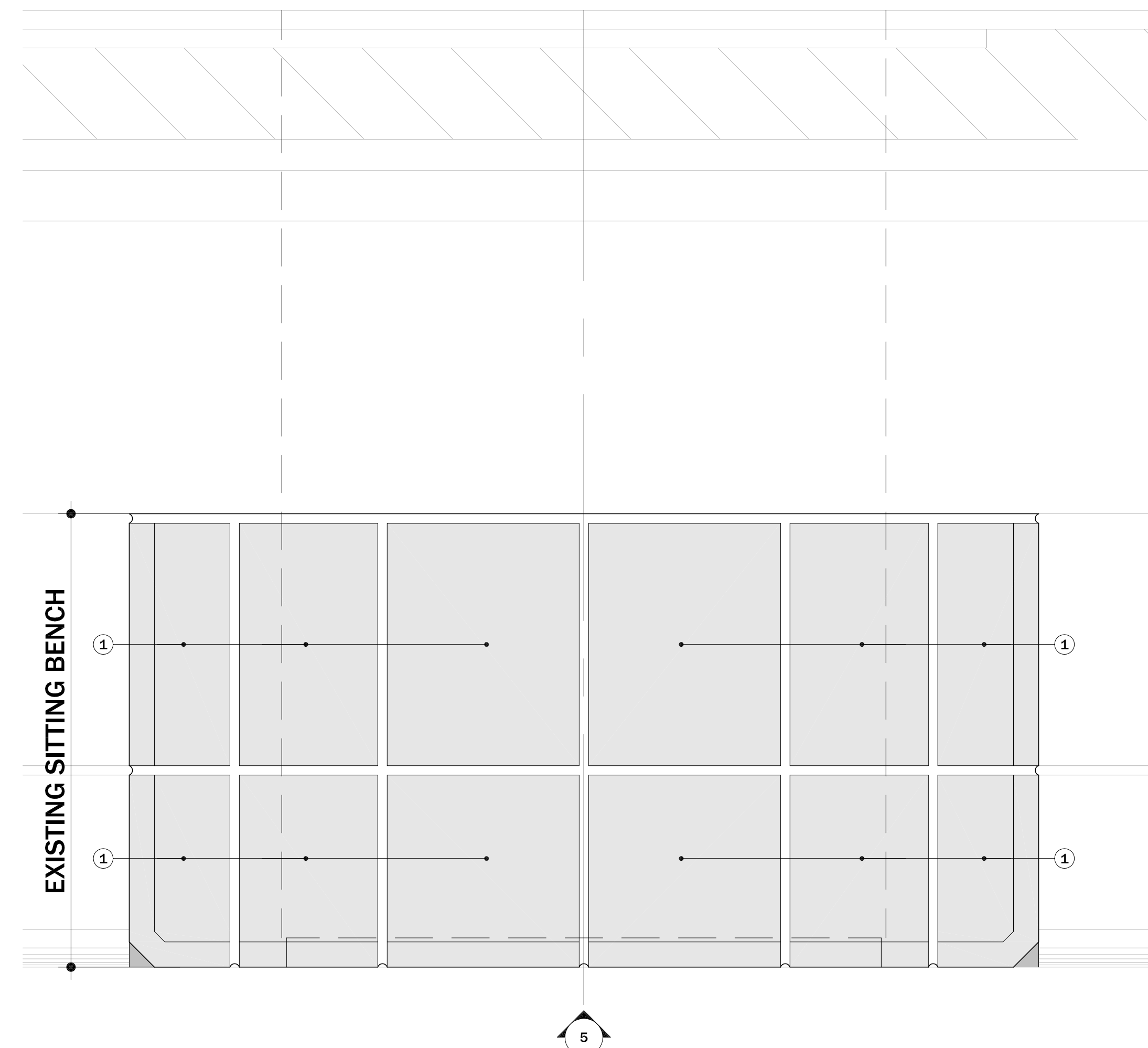
3 SECTION
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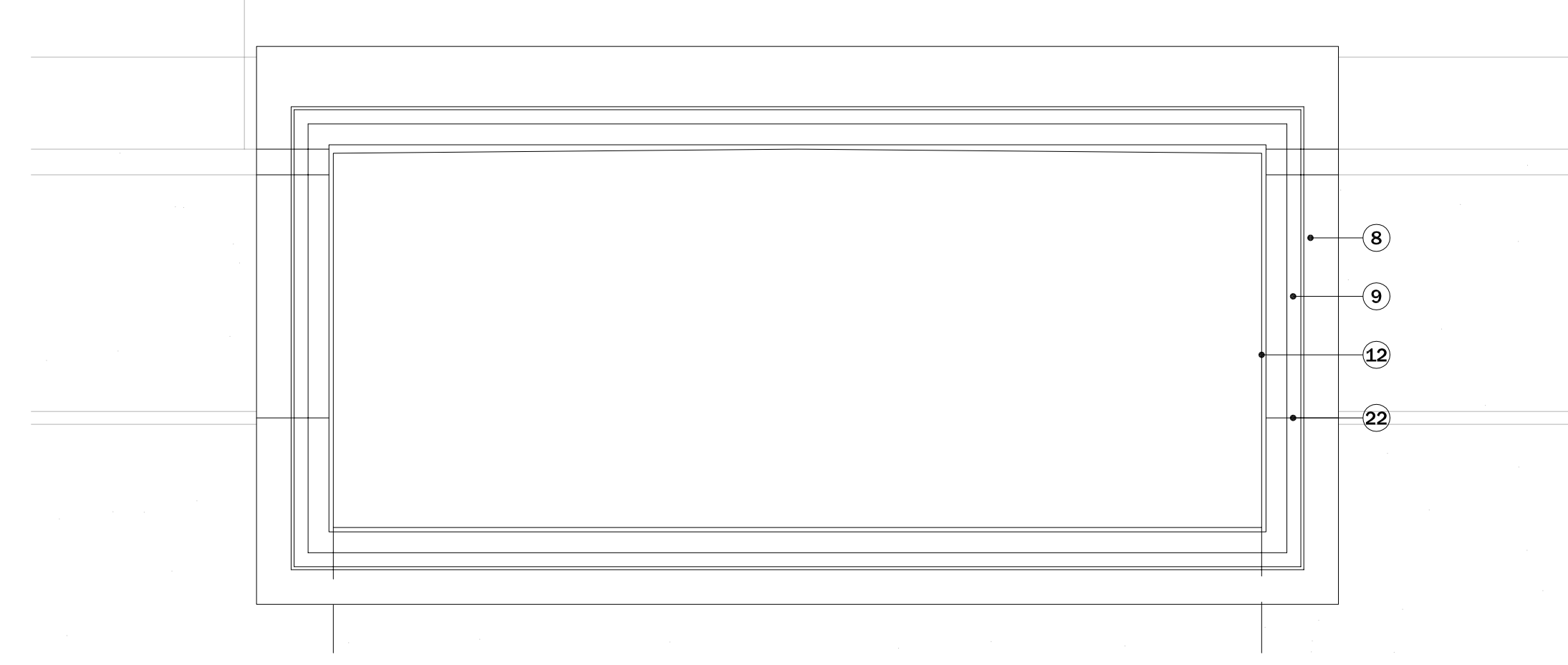
2 PLAN SECTION
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5 ELEVATION - INTERIOR
SCALE: 3" = 1'-0"



6 PLAN
SCALE: 3" = 1'-0"



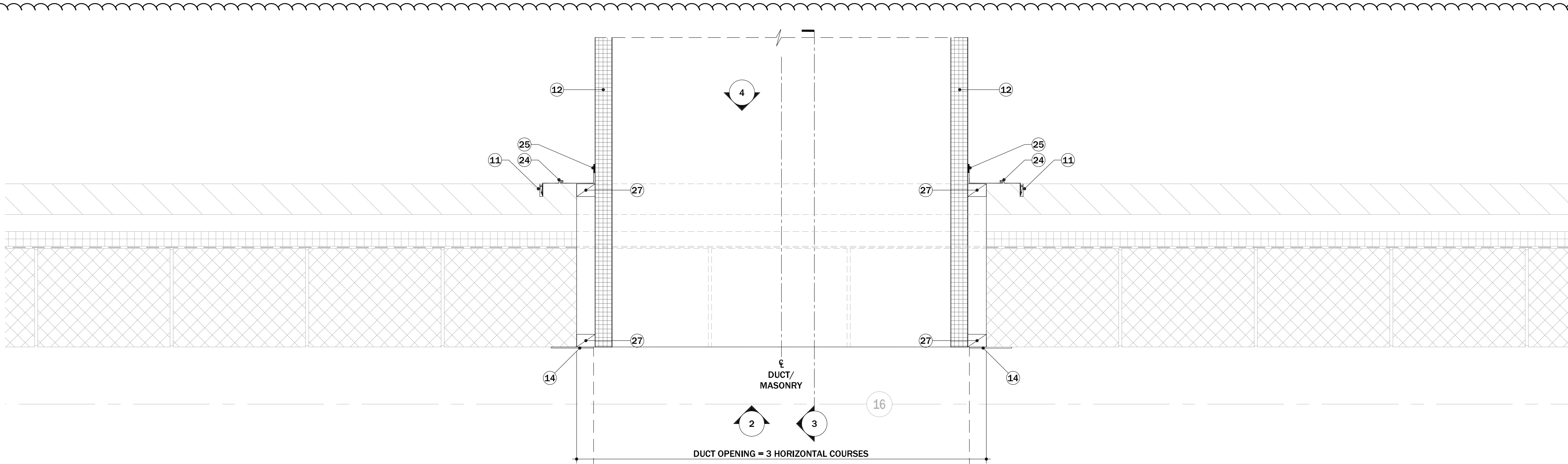
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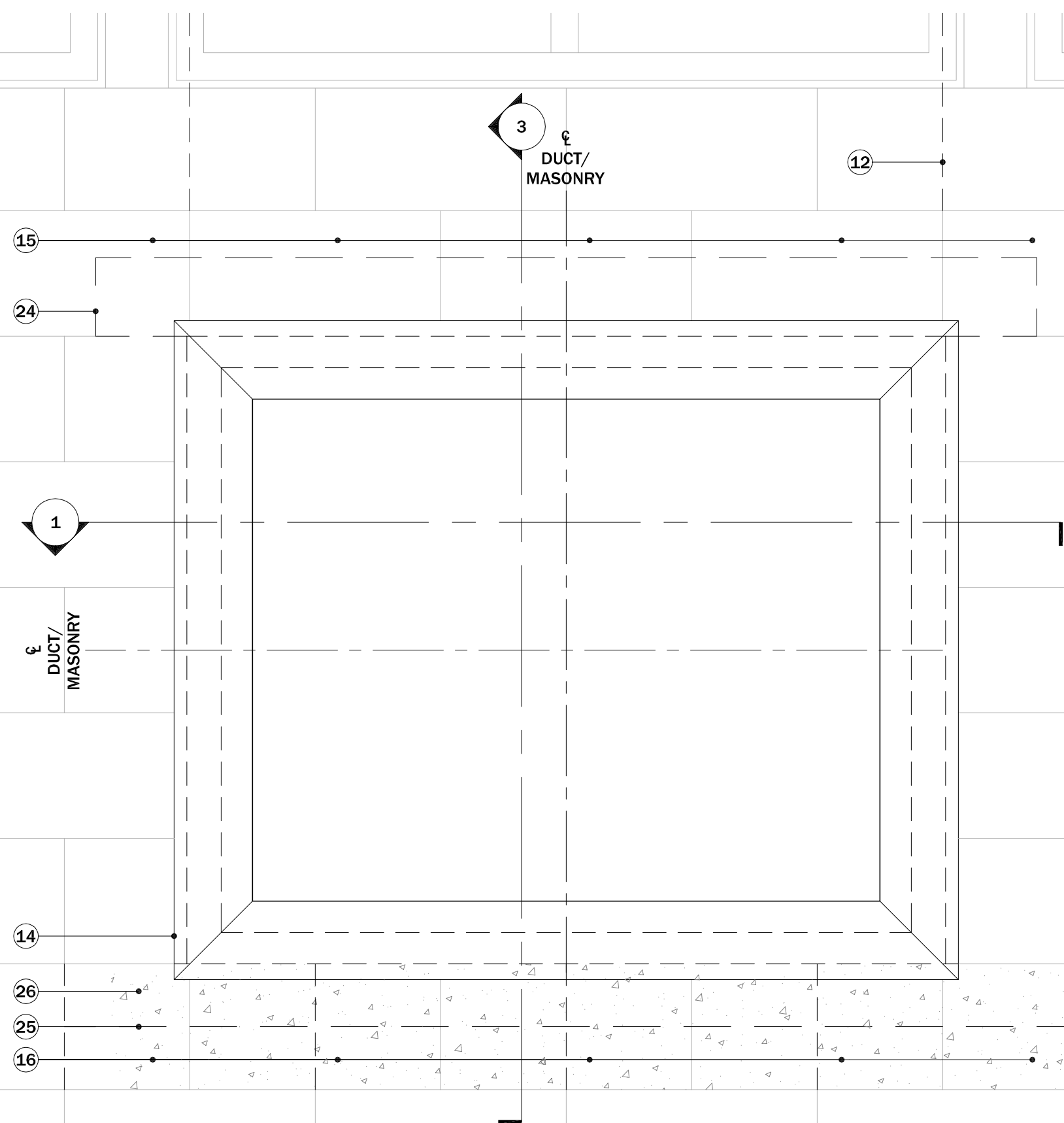
NOTE:
CONTRACTOR SHALL CHECK &
VERIFY ALL DIMENSIONS &
EXISTING CONDITIONS AT SITE.

REVISIONS		REVISIONS DATE
07-20-2020		
ADDENDUM 1		
CONSULTANT		
KARL RIEDEL ARCHITECTURE, PC		
4 Loudoun Street, SW		
Loudoun, Virginia 20175		
(703) 777-7777		
BRINJAC ENGINEERING		
14 North 2nd Street		
Harrisburg, PA 17101-1401		
Phone: (717) 233-4502		
Fax: (717) 233-4533		
www.brinjac.com		
PROJECT NAME		
DULLES SOUTH REC CENTER PHASE 4 - HVAC		
"COMPETITION POOL - DOAS"		
24950 RIDING CENTER DR		
SOUTH RIDING, VA 20152		
DATE		
06/25/2020		
DRAWN BY		
PA		
CHECKED/APPROVED BY		
KR		
BRINJAC PROJ. NUMBER		
19.0003092.000		
DRAWING NUMBER		
1ST FLOOR		
NEW WORK - ARCHITECTURAL		
A-401		

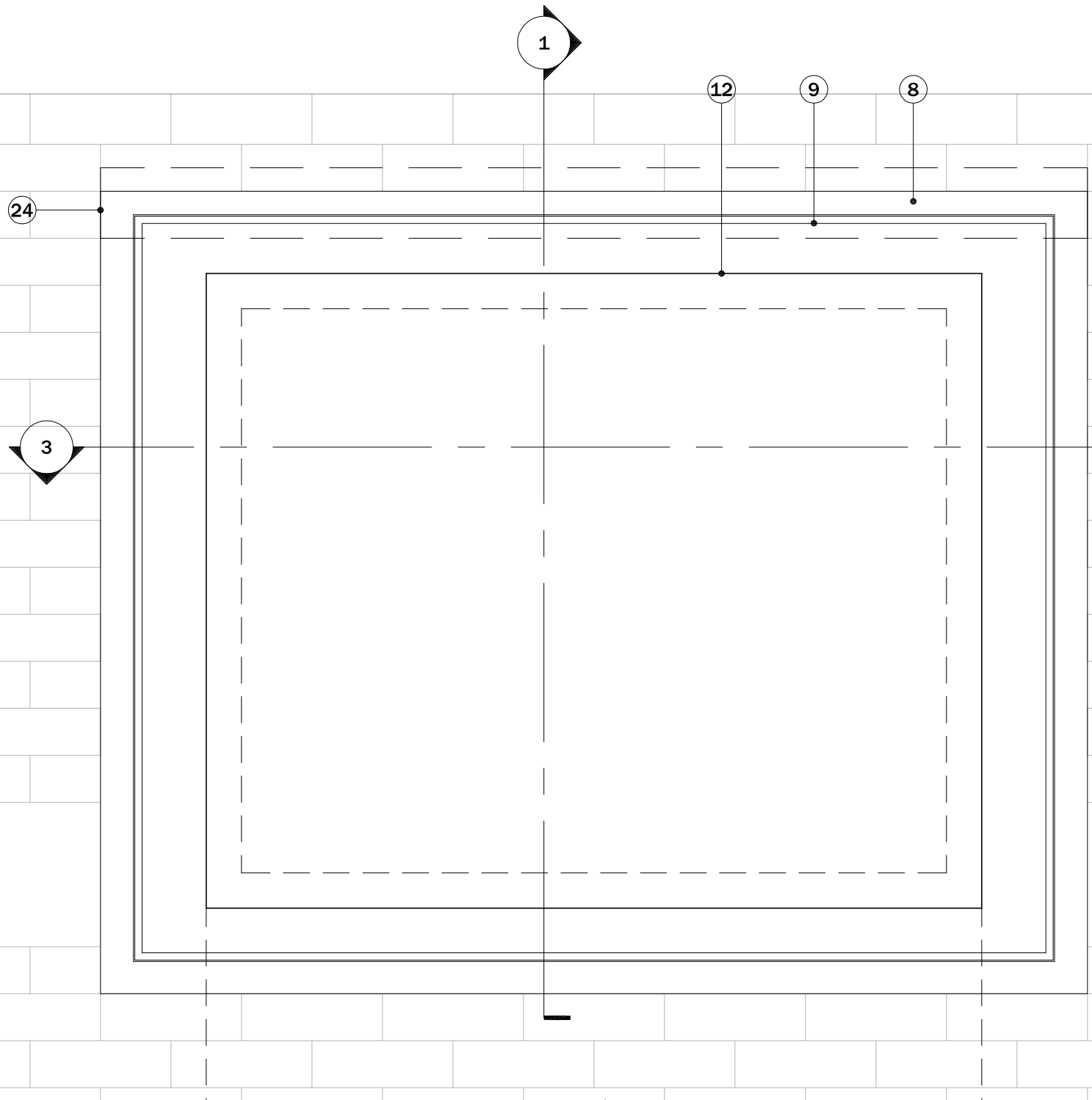
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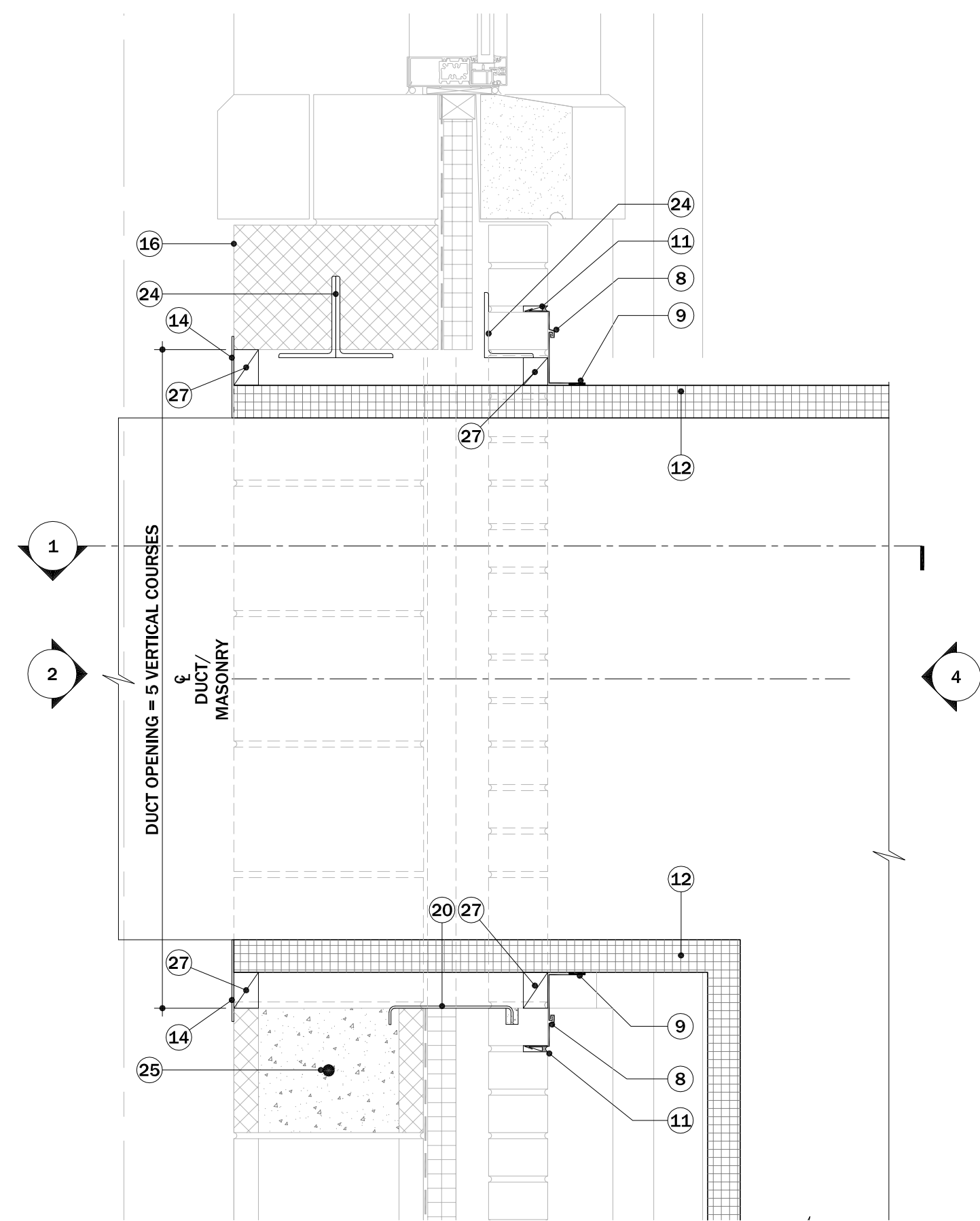
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SCALE: 1 1/2" = 1'-0"



2 ELEVATION INTERIOR
SCALE: 1 1/2" = 1'-0"



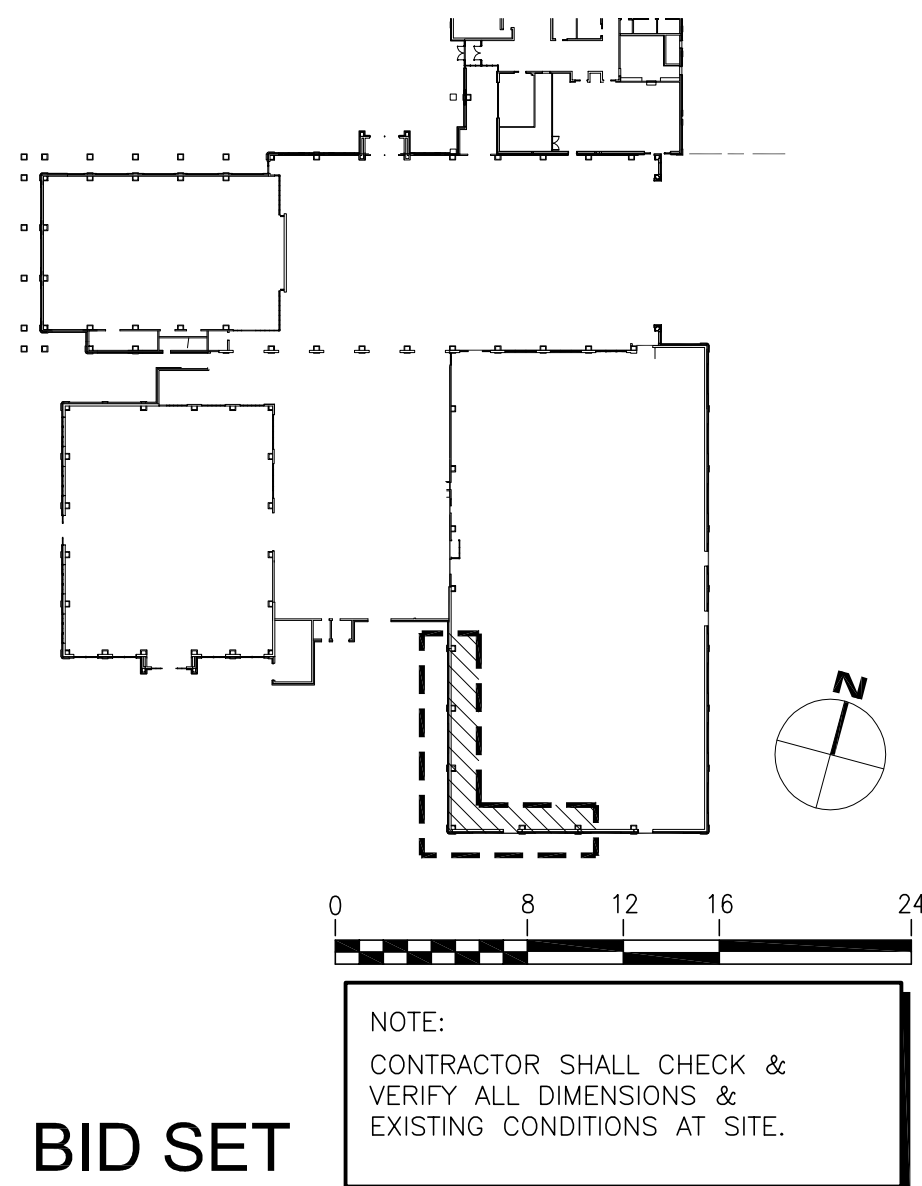
4 ELEVATION EXTERIOR
SCALE: 1 1/2" = 1'-0"



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

SHEET NOTES

- GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS TO MATCH EXISTING. COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS, COLOR HAWTHORN. COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- 1 1/2X 1 1/2X 1/8 ST STL WELDED ANGLE SUPPORT FRAME
- 3/4 HDO PLYWOOD SUBSTRATE ATTACHED TO (3) WITH ST STL C/S SCREWS
- MASONRY ANCHOR SCREW
- TITUS CT-PP-0 LINEAR GRILLE WITH TYPE 14 BORDER. SEE MECH
- 1/2 HDO PLYWOOD SUBSTRATE ATTACHED TO (3) WITH ST STL C/S SCREWS
- ST STL COUNTER FLASHING RECEIVER
- ST STL FLASHING CLEAT ADHERED TO INSULATED DUCT SUBSTRATE AND HEADER, SILL+JAMBS
- ROD +CAULK
- FIELD CUT 3/8X1 1/2 REGLET WITH LEAD WEDGE+CAULK
- INSULATED DUCT ASSEMBLY. SEE MECH
- EXISTING CMU/ BRICK REMOVED
- METAL TRIM FRAME SEE MECH
- (E) CMU COURSE TO REMAIN
- (E) CMU COURSE TO REMAIN. CMU TO BE MODIFIED IN PLACE TO ALLOW FOR PLACEMENT OF STRUCTURAL REINFORCEMENT+GROUTED SOLID. SEE 4/2100
- NEW OPENING TO EXISTING WALL ASSEMBLY
- EXISTING CAST STONE WATERTABLE+ COURSE BELOW. CAREFULLY CUT AND REMOVED TO ACCEPT NEW DUCTWORK. CONTRACTOR TO VIF DUCT ASSEMBLY DIMENSIONS. TOP OF DUCTWORK ASSEMBLY TO ALIGN WITH TOP OF WATERTABLE.
- UNDERSIDE OF BOND BEAM
- ST STL CRAMP STRAP
- GROUND FACE MASONRY, TRENWYTH TRENDSTONE PLUS TO MATCH EXISTING. COORDINATING TRENWYTH MORTAR COLOR TO MATCH EXISTING
- FOLD LINE
- EXPOSED FACES OF (3) TO BE PAINTED TO MATCH (6)
- NEW STRUCT STEEL. SEE 4/S100
- NEW REINFORCEMENT. SEE 4/S100
- REMOVE CENTER PORTION OF GROUT+CMU WEBS SEE S100
- BLOCKING AS REQUIRED



BID SET

REVISIONS DATE	07-20-2020
REVISIONS	ADDENDUM 1
CONSULTANT	KARL RIEDEL ARCHITECTURE, PC 4 Loudoun Street, SW Leesburg, Virginia 20175 (703) 777-7777 www.karlriedel.com
PROJECT NAME	DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS" 24950 RIDING CENTER DR SOUTH RIDING, VA 20152
DATE	06/25/2020
DRAWN BY	PA
CHECKED/APPROVED BY	KR
BRINJAC PROJ. NUMBER	19.0003092.000
DRAWING NUMBER	2ND FLOOR NEW WORK - ARCHITECTURAL
A-402	

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DESIGN NOTES

I. DESIGN LOADS FOR NEW WORK

- A. ROOF SNOW LIVE LOAD
- PG = 30 PSF
 - PF = 21 PSF + DRIFTING, MIN ROOF DESIGN LOAD = 30 PSF
 - ROOF LIVE LOAD = 20 PSF + 300 LBS. CONCENTRATED LOAD.
 - SNOW EXPOSURE FACTOR, CE = 1.0
 - SNOW LOAD IMPORTANCE FACTOR, IS = 1.0
 - SLOPE FACTOR, CS = 1.0
 - THERMAL FACTOR, CT = 1.0
- B. FLOOR LIVE LOADS
- PUBLIC ASSEMBLY = 100 PSF
 - LOBBIES, 1ST FLR. CORRIDORS = 100 PSF
 - CORRIDORS ABOVE 1ST FLR. = 80 PSF
 - STAIRS = 100 PSF OR 300 LBS PT. LOAD
 - HANDRAILS = 50 PLF LATERAL OR 200 LBS PT. LOAD IN ANY DIRECTION.
- C. WIND LOAD
- VULT (3-SECOND GUST) = 115 MPH
 - VASD = 89 MPH
 - EXPOSURE = B
 - INTERNAL PRESSURE COEFFICIENT = 0.18GCP1
 - COMPONENT AND CLADDING PRESSURE PER ASCE 7-10, TABLE 30.3-1 AND FIGURES 30.4-1 TO 4.
- D. SEISMIC LOAD
- RISK CATEGORY = II
 - SEISMIC IMPORTANCE FACTOR, IE = 1.0
 - MAPPED SPECTRAL ACCELERATION, SHORT PERIOD, SS = 0.155
 - MAPPED SPECTRAL ACCELERATION, 1-SEC. PERIOD, S1 = 0.051
 - SITE CLASS = D
 - SPECTRAL RESPONSE COEFFICIENT, SHORT PERIOD, Sps = 0.165
 - SPECTRAL RESPONSE COEFFICIENT, 1-SEC. PERIOD, Sp1 = 0.082
 - SEISMIC DESIGN CATEGORY = B
 - ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE
 - CODE: THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE/2015.

II. CONCRETE

- A. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 302.
- B. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I OR II.
- C. REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. ALL REINFORCEMENT SPICES SHALL BE A MINIMUM OF 40 BAR DIAMETERS.
- D. CAST IN PLACE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C AS FOLLOWS:
- EXT. SLAB-ON-GRADE AND PADS = 4500 PSI.
- E. PROVIDE 6X8-1/2" X 12X21 W.W.P. IN ALL SLAB-ON-GRADE AT MID-DEPTH OF THE SLAB. ALL WIRE FABRIC SHALL CONFORM TO ASTM A1064. ALL MESH EDGES SHALL LAP A MINIMUM OF TWO (2) SQUARES.
- F. CONCRETE SLUMP SHALL = 4" ± 1".
- G. MINIMUM CONCRETE COVER BETWEEN FACE OF REINFORCING BAR AND FACE OF CONCRETE SHALL BE AS FOLLOWS:
- CONCRETE CAST AGAINST EARTH = 3"
 - FORMED CONCRETE EXPOSED TO WEATHER OR EARTH = 2"
- H. ALL EXTERIOR EXPOSED SLAB/PADS SHALL HAVE A MINIMUM AIR ENTRAINMENT OF 6% ± 1.5% PER ACI 318 4.2.1.
- I. SHOP DRAWINGS FOR ALL CONCRETE REINFORCEMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- J. PROVIDE A 10-MIL VAPOR BARRIER OVER A 4-INCH GRAVEL LAYER BENEATH ALL SLAB ON GRADE.

III. GENERAL

- A. THE CONTRACTOR SHALL EXPOSE AND CONFIRM ALL EXISTING STRUCTURAL CONDITIONS RELATIVE TO THE NEW CONSTRUCTION AND INFORM THE ENGINEER OF CONDITIONS AT VARIANCE WITH THOSE SHOWN ON THE DRAWINGS. VERIFICATION AND NOTIFICATION SHALL PROCEED PRIOR TO THE START OF WORK SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT DELAYING THE PROJECT SCHEDULE.
- B. THE CONTRACTOR SHALL MEASURE AND PROVIDE ALL EXISTING FIELD DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- C. THE DEVELOPMENT AND IMPLEMENTATION OF JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- D. CONTRACTOR SHALL PROVIDE INDEPENDENTLY PREPARED SHOP DRAWINGS AND SHALL NOT REPRODUCE ANY PORTION OF THE CONTRACT DOCUMENTS IN PREPARING SHOP DRAWINGS. THE SHOP DRAWINGS SHALL NOT SIMPLY BE A MARK-UP OF THE CONTRACT DOCUMENTS.
- E. ALL MEANS AND METHODS OF SAFELY REMOVING ALL EXISTING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

IV. TESTING AND INSPECTION

- THE OWNER WILL RETAIN THE SERVICES OF AN INSPECTION AGENCY TO PERFORM THE FOLLOWING SERVICES. ADDITIONAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- A. THE PLACEMENT OF ALL CONCRETE REINFORCEMENT SHALL BE INSPECTED.
- B. CONCRETE CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. IN ABSENCE OF LOCAL REQUIREMENTS, ONE SET OF 6 CYLINDERS SHALL BE TAKEN FOR EACH DAY'S POUR: (2) 7-DAY, (2) 28-DAY, (2) HOLD.
- C. WRITTEN REPORTS SHALL BE SUBMITTED TO THE ARCHITECT STATING COMPLIANCE OR NONCOMPLIANCE WITH DESIGN DOCUMENTS AND SPECIFICATIONS. ALL REPORTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.

V. EARTHWORK

- A. ALLOWABLE SOIL BEARING PRESSURE FOR ALL SHALLOW FOOTINGS IS ASSUMED AS 3000. SHOULD UNSUITABLE MATERIAL BE ENCOUNTERED, FOOTINGS SHALL BE OVEREXCAVATED AND REPAIRED WITH LEAN CONCRETE, F'C = 2000 PSI. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'-4" BELOW EXTERIOR GRADE, UNLESS NOTED OTHERWISE. WORK SHALL BE COORDINATED WITH EXISTING UNDERGROUND UTILITIES IN ACCORDANCE WITH TYPICAL DETAIL. OVERCUT SHALL NOT UNDERMINE EXISTING ADJACENT FOUNDATIONS.
- B. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL AND SHALL BE SELECTED ON THE BASIS OF LABORATORY COMPACTION TESTS, HAVING A LIQUID LIMIT OF LESS THAN 40, A PLASTICITY INDEX OF LESS THAN 15. FILL SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINED BY ASTM D698 STANDARD PROCTOR METHOD.

VI. STRUCTURAL STEEL

- A. ALL STRUCTURAL STEEL SHALL BE ASTM FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 'STEEL CONSTRUCTION MANUAL' WITH A MINIMUM YIELD STRENGTH AS FOLLOWS:
- ANGLES AND RODS: Fy = 36 ksi PER ASTM A36.
- B. ALL STEEL LINTELS SHALL BE GALVANIZED AND HAVE A MINIMUM OF 6" BEARING AND SHALL BE PROPORTIONED AS FOLLOWS FOR EACH 4" OF WALL WIDTH.
- C. CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DESIGN SHORING AND/OR BRACING OF EXISTING WALLS AS REQUIRED DURING INSTALLATION OF LINTELS. DESIGN AND ERECTION OF SHORING AND/OR BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- D. NO FABRICATION SHALL PROCEED PRIOR TO SHOP DRAWINGS APPROVAL.
- E. ALL STRUCTURAL STEEL ANGLES SHALL BE HOT-DIPPED GALVANIZED (150Z/5F) TO ASTM A123 GRADE 85. TOUCH UP ALL DAMAGED AREAS.
- F. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE DETAILS FOR APPLICATION AND ASSEMBLY OF ALL STRUCTURAL MEMBERS. INCLUDE DETAILS OF CUTS, CONNECTIONS, HOLES, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS 2.1 SYMBOLS SHOWING SIZE, LENGTH AND TYPE OF EACH WELD. SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
- G. ALL WORK SHALL COMPLY WITH THE AISC CODE 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES'.

VII. MASONRY

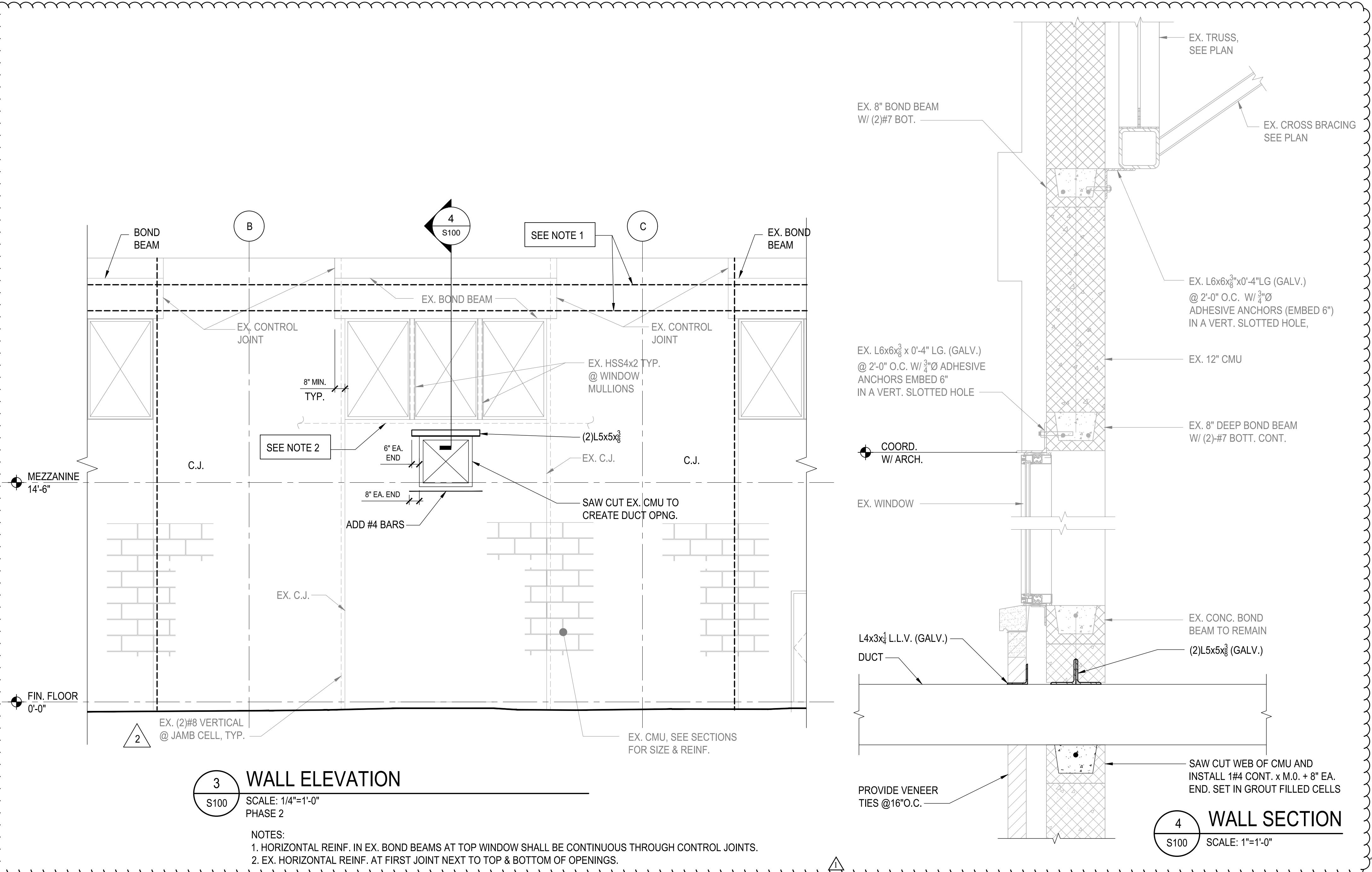
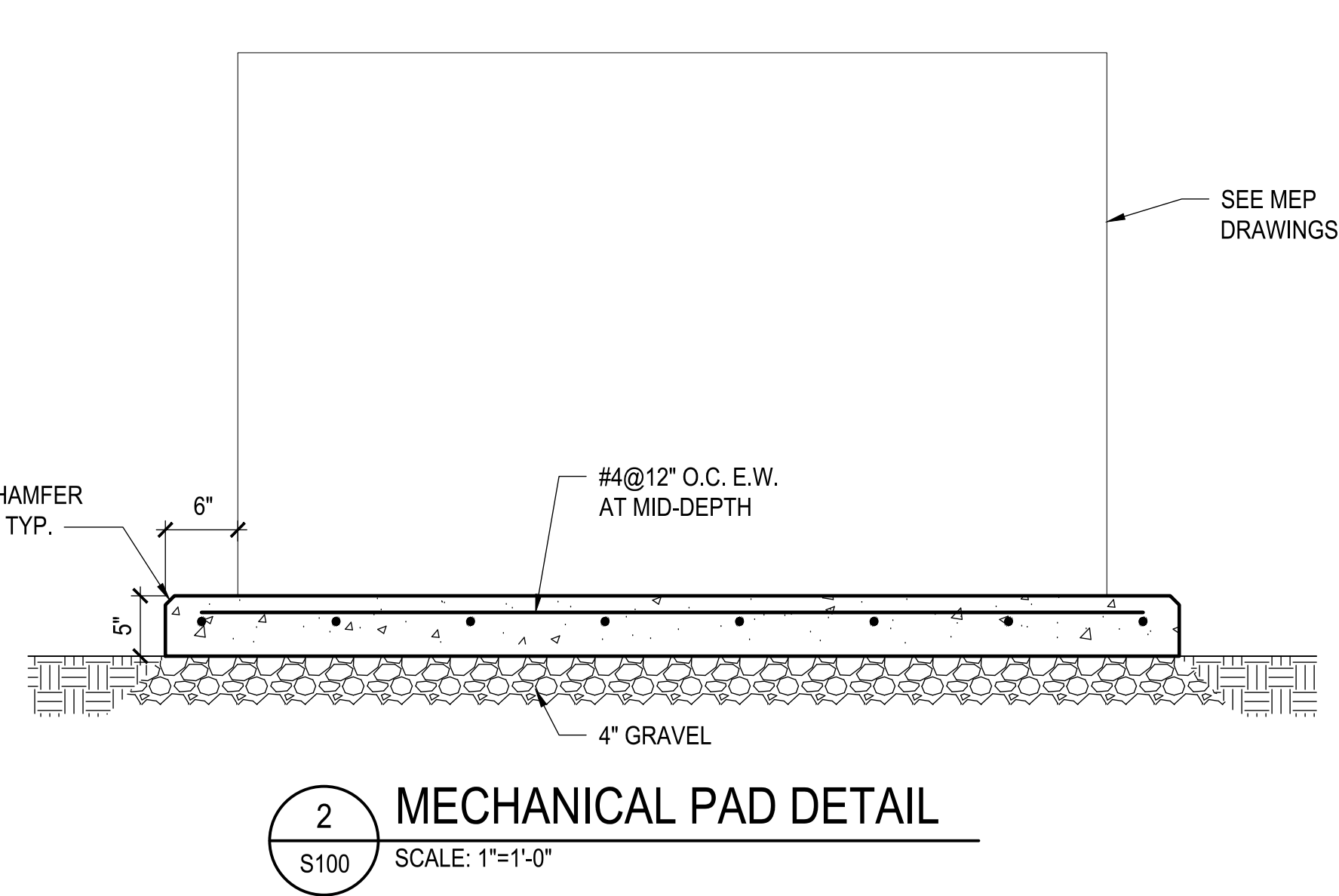
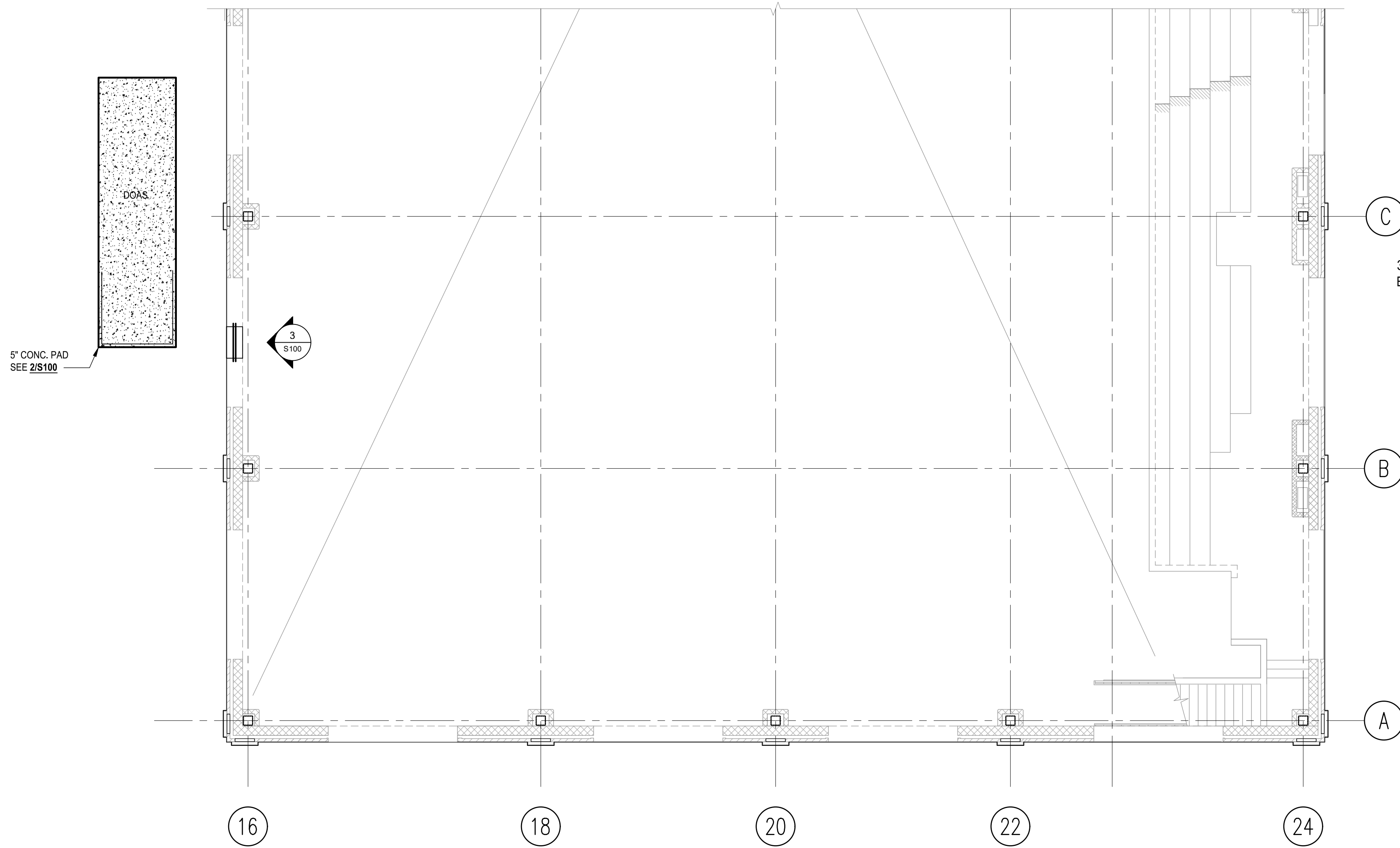
- A. MASONRY MORTAR SHALL BE ASTM C270 TYPE S FOR HOLLOW CMU WALLS AND TYPE N FOR VENEER WALLS. PORTLAND CEMENT/LIME SHALL BE USED FOR ALL CMU WALLS. THE USE OF MASONRY CEMENT MORTAR IS PROHIBITED.
- B. ALL MASONRY CELLS CONTAINING BOLTS OR REINFORCEMENT SHALL BE FILLED WITH COARSE GROUT PER ASTM C476, AGGREGATE PER ASTM C404. GROUT SHALL BE CONSOLIDATED AT REBAR CELL LOCATIONS.
- C. BRICK TIES SHALL BE ATTACHED TO ALL BRICK VENEER SPACED AT 16" O.C. HORIZONTALLY (MAXIMUM). CORRUGATED TIES ARE PROHIBITED FOR WALLS WITH CAVITIES OVER 1". TIES SHALL EXTEND 9" INTO BRICK AND/OR CMU.
- D. TIE MATERIAL SHALL CONFORM TO ASTM A366 AND ASTM A153, CLASS B2, HOT DIP GALVANIZED (1.5 OZ/SF.) STEEL WIRE SHALL CONFORM TO ASTM A62.
- E. SCREW FASTENERS SHALL BE SELF-DRILLING/SELF-TAPPING WITH MILD SHANK AND HARDENED TIP AND AN ORGANIC-POLYMER COATING CONFORMING TO ASTM A449.
- F. ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE 'SPECIFICATIONS FOR MASONRY STRUCTURES' ACI 530.1-11/ASCE 6-11TMS 602-11.
- G. ALL CMU GROUT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- H. HORIZONTAL REINFORCING STEEL SHALL BE SECURELY HELD IN PROPER ALIGNMENT AND POSITION DURING GROUTING OPERATIONS BY USING REBAR POSITIONERS. ALL VERTICAL BARS SHALL BE TIED TO REBAR POSITIONERS.
- I. GROUT SHALL BE PLACED USING LOW-LIFT GROUTING PROCEDURES CONFORMING TO NMA REQUIREMENTS. THE MAXIMUM GROUT HEIGHT SHALL NOT EXCEED 4 FEET 8 INCHES. TERMINATE GROUT POURS AT 1 1/2 INCHES BELOW TOP COURSE OR POUR, SPICES FOR VERTICAL REINFORCEMENT SHALL BE LAPPED 48-BAR DIAMETERS.
- J. ALL NEW MASONRY WORK SHALL BE TOOTHED INTO EXISTING ADJACENT MASONRY.

VIII. GENERAL

- A. THE CONTRACTOR SHALL EXPOSE AND CONFIRM ALL EXISTING STRUCTURAL CONDITIONS RELATIVE TO THE NEW CONSTRUCTION AND INFORM THE ENGINEER OF CONDITIONS AT VARIANCE WITH THOSE SHOWN ON THE DRAWINGS. VERIFICATION AND NOTIFICATION SHALL PROCEED PRIOR TO THE START OF WORK SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT DELAYING THE PROJECT SCHEDULE.
- B. THE CONTRACTOR SHALL MEASURE AND PROVIDE ALL EXISTING FIELD DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- C. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DESIGN ALL TEMPORARY BRACING AND SHORING, AS NEEDED, TO ENSURE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR PORTION THEREOF DURING CONSTRUCTION OR DEMOLITION OPERATIONS.
- D. THE CONTRACTOR'S REGISTERED ENGINEER SHALL ALSO DETERMINE:
- THE ALLOWABLE TEMPORARY CONSTRUCTION LOADS & PROVIDE A DESIGN FOR ALL FALSEWORK, FORMWORK, STAGINGS, RIGGING, BRACING, SHEETING, & SHORING.
 - THE ALLOWABLE TEMPORARY CONSTRUCTION EQUIPMENT LOADS FOR MANLIFTS, AND PALLET TRUCKS.
 - THE ADEQUACY OF THE EXISTING FOOTINGS AND FOUNDATION WALLS AT ALL TEMPORARY ACCESS OPENING LOCATIONS NEEDED FOR CONSTRUCTION ACCESS.
- E. WHEREVER THE LOADING FROM THE CONTRACTOR'S EQUIPMENT EXCEEDS THE ALLOWABLE LIVE LOAD CAPACITIES INDICATED ON THE DRAWINGS, TEMPORARY SHORING SHALL BE PROVIDED. THE SHORING DESIGN PROCEDURES SHALL CONFORM TO ALL GOVERNING CODES & SAFETY REQUIREMENTS. A RECORD COPY OF THE SIGNED & SEALED SHORING DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE A/E.
- F. IMPLEMENTATION OF JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- G. CONTRACTOR SHALL PROVIDE INDEPENDENTLY PREPARED SHOP DRAWINGS AND SHALL NOT REPRODUCE ANY PORTION OF THE CONTRACT DOCUMENTS IN PREPARING SHOP DRAWINGS. THE SHOP DRAWINGS SHALL NOT SIMPLY BE A MARK-UP OF THE CONTRACT DOCUMENTS.

IX. DEMOLITION

- A. OPENINGS THRU EXISTING CMU WALL SHALL BE SAW CUT. EXISTING REINFORCING BARS SHALL NOT CUT WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- B. ALL MEANS AND METHODS OF SAFELY REMOVING ALL EXISTING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



100% CD

REVISIONS DATE 07-20-2020

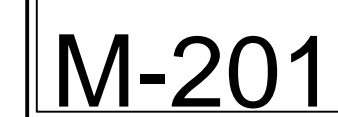
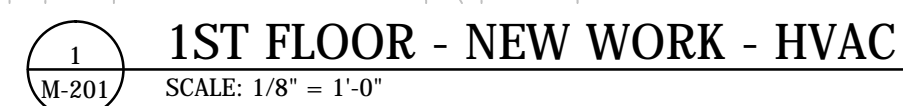
REVISIONS ADDENDUM 1

CONSULTANT Union Engineering, LLC. 14 North 2nd Street, Harrisburg, PA 17101-4401 Phone: (717) 233-4502 Fax: (717) 233-4533 www.brinjac.com

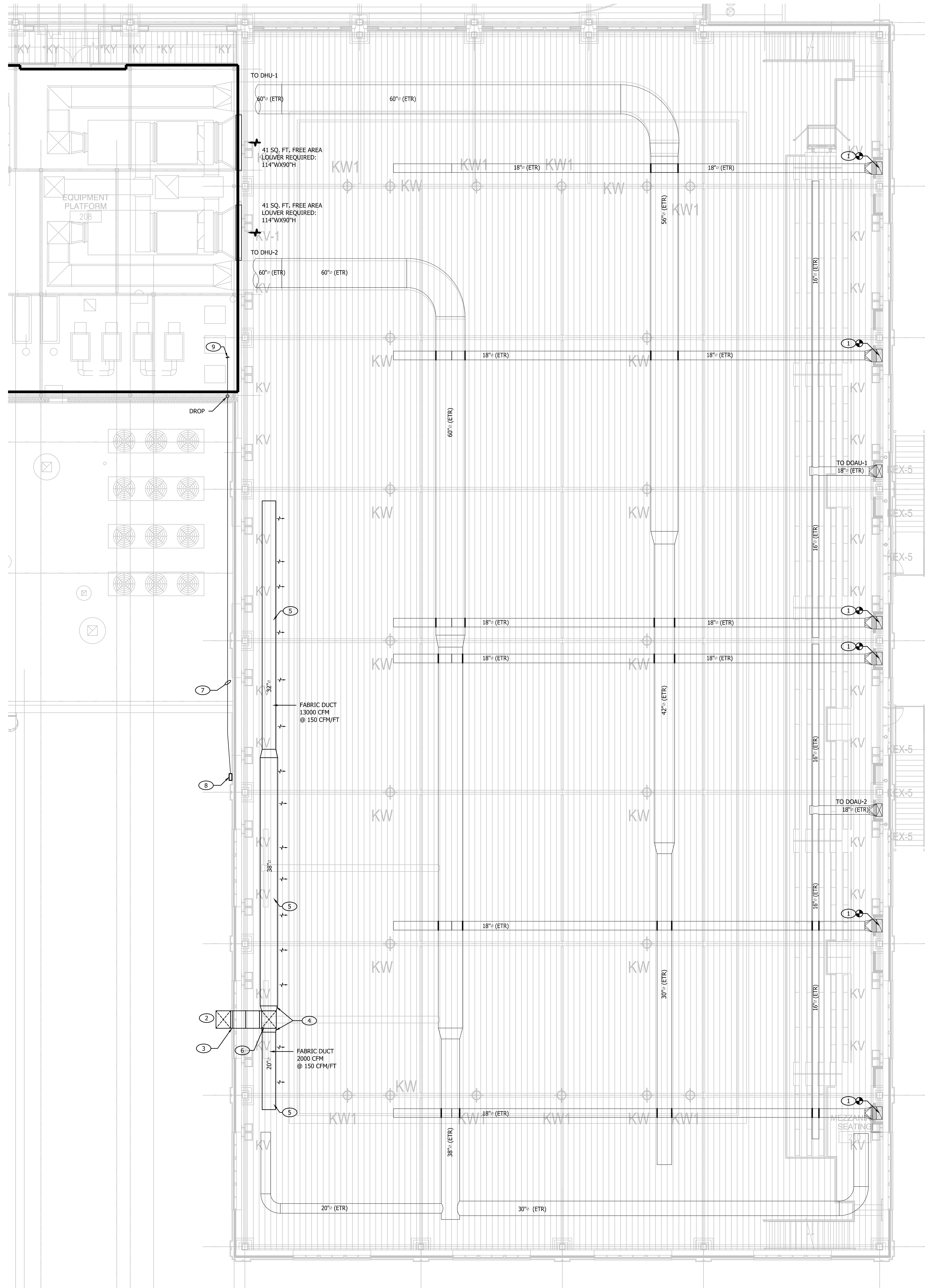
PROJECT NAME DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS" 24950 RIDING CENTER DR SOUTH RIDING, VA 20152

DATE 02/19/2020 DRAWN BY JaL CHECKED/APPROVED BY DL BRINJAC PROJ. NUMBER 19.0003092.000 DRAWING NUMBER DESIGN NOTES

S-100



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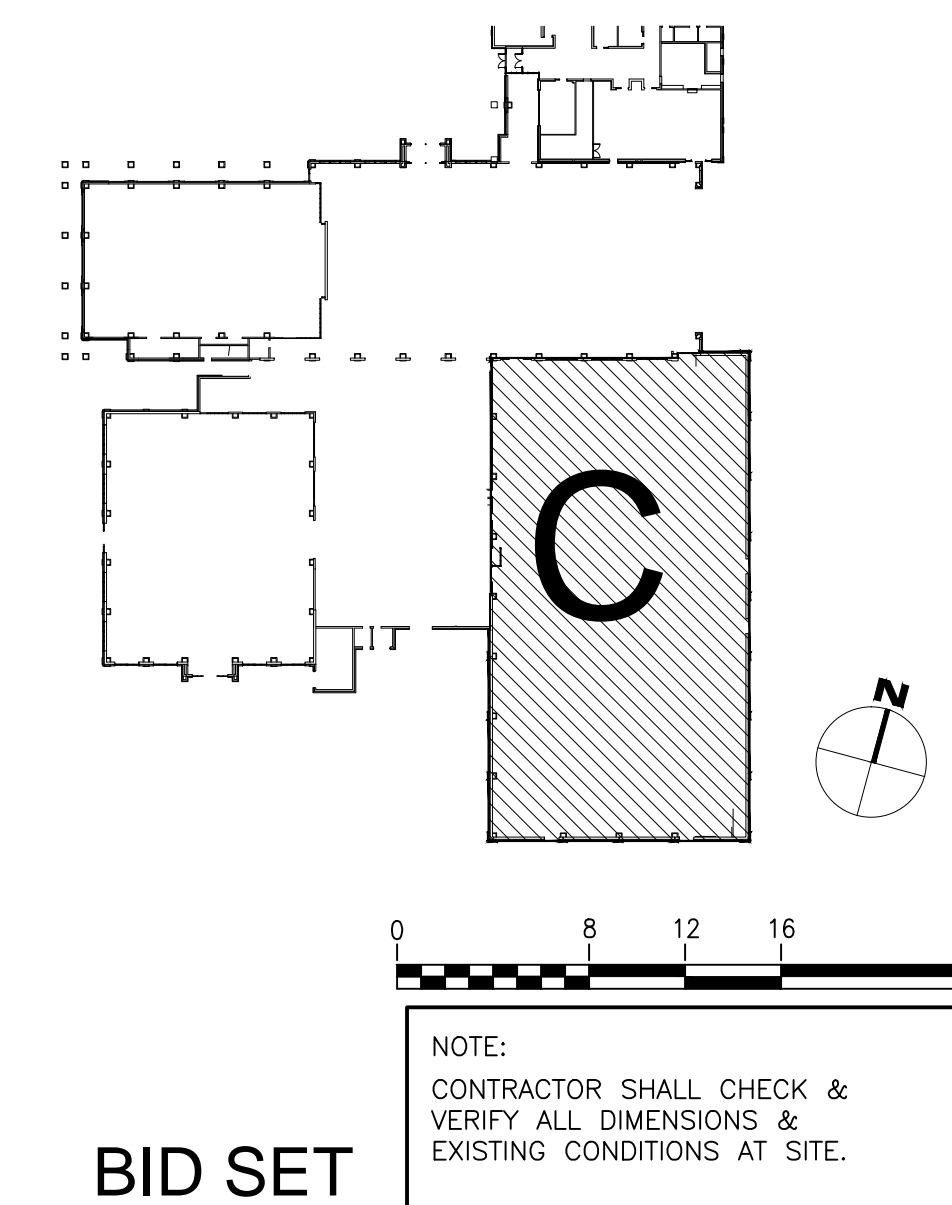
1
M-202
2ND FLOOR - NEW WORK - HVAC
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- 1 ALL NEW SUPPLY AIR AND EXHAUST DUCTWORK EXPOSED TO OUTDOOR CONDITIONS SHALL BE FULLY INSULATED WITH 2" THICK FIBERGLASS STANDARD FACE. INSULATION SHALL BE CUT AND FIT TIGHTLY BETWEEN STANDING SEAMS. SECURE INSULATION TO TOP OF DUCTWORK WITH INSULATION BONDING ADHESIVE AND COVER ENTIRE SURFACE OF INSULATION WITH A 1/8" THICK WET COAT OF BREATHER MASTIC AND EMBED A LAYER OF GLASS FABRIC WITH ALL JOINTS LAPPED 2" MINIMUM. COVER WITH A SECOND 1/8" THICK WET COAT OF BREATHER MASTIC.
- 2 ALL NEW SUPPLY AIR AND EXHAUST DUCTWORK IS TO BE CONSTRUCTED OF HEAVY GAUGE STAINLESS STEEL WITH ALL-WELDED JOINTS.

KEYED NOTES:

- 1 EXISTING EXHAUST AIR DUCTWORK DOWN TO FIRST FLOOR INSIDE STORAGE AND MECHANICAL ROOMS TO BE CAPPED AND LEFT IN PLACE.
- 2 NEW 40x32 S.A. DUCTWORK DOWN AND SECURED TO THE BUILDING EXTERIOR WALL WITH DUCT BRACKETS. OUTDOOR DUCTWORK IS TO BE INSULATED ACCORDING TO GENERAL NOTE 1.
- 3 NEW 40x32 S.A. DUCTWORK PENETRATION BELOW EXISTING WINDOWS. SEAL ALL AROUND WALL OPENING AIR AND WATER TIGHT, AND FROM INSIDE SHALL BE SEALED VIA FIRE RATED RETARDANT WITH STAINLESS STEEL DUCT FRAMES.
- 4 TRANSITION FROM SHEET METAL DUCT TO DUCTSOX FABRIC DUCT. FABRIC DUCTS SHALL BE COORDINATED SO THAT THE HORIZONTAL RUN SHALL NOT START BELOW THE HEIGHT OF THE TOP EDGE OF THE COMPETITION SCOREBOARD. ALL FABRIC DUCTWORK IS TO BE MOUNTED MIDWAY BETWEEN THE EXTERIOR WALL AND THE EDGE OF THE COMPETITION POOL.
- 5 PROVIDE NOZZLES IN FABRIC DUCT ANGLED AT 0° FROM HORIZONTAL TO BLOW AIR TOWARD CENTER OF POOL ONLY.
- 6 40x32 S.A. DUCTWORK UP AND SECURED FROM ABOVE.
- 7 3/4" CONDUIT TO BE EXTENDED TO EXISTING MEZZANINE MECHANICAL ROOM AND TERMINATE BY THE EXISTING BUILDING MANAGEMENT SYSTEM. AUTOMATIC TEMPERATURE CONTRACTOR (ATC) SHALL BE RESPONSIBLE FOR THE NEW 3/4" CONDUIT AND SECURING IT FROM BUILDING COMPONENTS.
- 8 CONTROLLER PANEL OF DOAS-1.
- 9 EXTEND TO EXISTING BUILDING MANAGEMENT SYSTEM AND CONNECT THE CONTROL WIRING FROM DOAS-1 CONTROLLER PANEL.



BID SET

REVISIONS DATE	07-20-2020
REVISIONS	ADDENDUM 1
CONSULTANT	BRINJAC ENGINEERING since 1955 14 N. Main, 2nd Street Harrisburg, PA 17101-1401 Phone: (717) 233-4502 Fax: (717) 233-4533 www.brinjac.com
SEAL	
PROJECT NAME	DULLES SOUTH REC CENTER PHASE 4 - HVAC "COMPETITION POOL - DOAS" 24950 RIDING CENTER DR SOUTH RIDING, VA 20152
DATE	05/01/2020
DRAWN BY	DS
CHECKED/APPROVED BY	JES
BRINJAC PROJ. NUMBER	19.0003092.000
DRAWING NUMBER	2ND FLOOR NEW WORK - MECHANICAL
	M-202