

May 8, 2018

TO: All Prospective Proposers
HSF I – Replace Emergency Generator Enclosures
IFB # 17-333 ML

FROM: Michael Lacey
University of Maryland Baltimore, Construction Procurement

RE: NAME OF PROJECT: HSF I – Replace Emergency Generator Enclosures
UMB PROJECT NUMBER: 17-333 ML

The following amends the above referenced solicitation documents and is issued as Addendum #1 dated 5/8/18. The due date and time for the **Bid Price** has been amended to **Tuesday, May 22, 2018 at or before 2:00 p.m.** Receipt of this addendum is to be acknowledged by completing the enclosed “Acknowledgement of Receipt of Addenda” form and including it with your bid price.

1. Scope of Work

- A. Add: B. Scope of Work – 4. The contractor shall be permitted to work weekends provided that management be maintained of all employees at all times. The contractor may work seven (7) days a week between the hours of 6:00 am and 6:00 pm. Longer hours may be permitted so long as the work is performed during daylight hours. Night work will not be permitted.
- B. Add: B. Scope of Work – 5. The contractor will have to coordinate with MIEMSS (Maryland Institute for Emergency Medical Services System). MIEMSS is responsible for managing the helicopter access to the helipad on the adjacent building. The contractor will be responsible for coordinating with MIEMSS to ensure that helicopter access is maintained and unencumbered throughout the project.
- C. Add: B. Scope of Work – 6. The contractor will be provided with an area on the roof for storage of tools, equipment and new housing components.
- D. Add: B. Scope of Work – 7. Steel walkways are currently being installed on the roof above and adjacent to the existing generator enclosures for the cooling towers. The steel dunnage will be bolted in place by the time this project is awarded. It is the intention of this project scope, for the awarded contractor, to unbolt the dunnage above and adjacent to the generators and move it to the roof deck while their work is taking place; this includes the grating. With this dunnage removed, the existing generator housing can be lifted from above and set in place. The dunnage and grating shall be reinstalled once work on each generator is complete. See the drawing attached to Addendum #1 for a detail of the dunnage location and specification.
- E. Add: B. Scope of Work – 8. The notice to proceed is expected to be issued on or about the week of July 16, 2018.

2. Construction Drawings

- A. Add: Drawing #A3.02 dated 7/2/1992 – Building Elevations.
- B. Add: Drawing #A3.04 dated 7/2/1992 – Exterior Elevations/Sections.
- C. Add: Drawing #A3.05 dated 7/2/1992 – Exterior Elevations/Sections.
- D. Add: Drawings #S101 and #S102 dated 8/15/2016 – Roof to Dunnage.

END OF ADDENDUM #1 DATED 5/8/2018

Enclosed: Addenda Acknowledgment Form
 Drawing #A3.02
 Drawing #A3.04
 Drawing #A3.05
 Drawings #S101 & S#102

IFB NO.: 17-333 ML

IFB FOR: HSF I – Replace Emergency Generator Enclosures

BID DUE DATE/TIME: May 22, 2018 at or before 2:00 p.m.

NAME OF BIDDER: _____

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA

The undersigned, hereby acknowledges the receipt of the following addenda:

Addendum No. 1 dated 5/8/2018

Addendum No. _____ dated _____

Addendum No. _____ dated _____

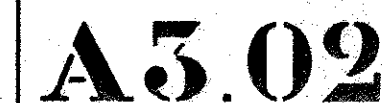
Addendum No. _____ dated _____

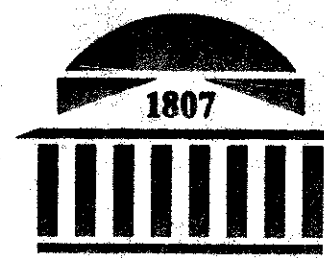
Signature _____

Printed Name _____

Title _____

Date _____





UMAB

HEALTH
SCIENCES
FACILITY

West Baltimore Street
Baltimore, Maryland
21201 1041

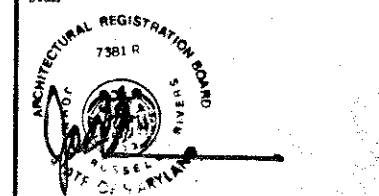
A JOINT VENTURE OF CUH2A, INC.
& AYERS SAINT GROSS, INC.



600 Alexander Road 222 St. Paul Place
Princeton, New Jersey Baltimore, Maryland
08543 5240 21202 2091
609 452 1212 301 347 8500

Architecture, Engineering, Planning, Interior Design

Seals



UNIVERSITY OF MARYLAND AT BALTIMORE
APPROVAL

Date

Date

Date

Date

Date

Date

Date

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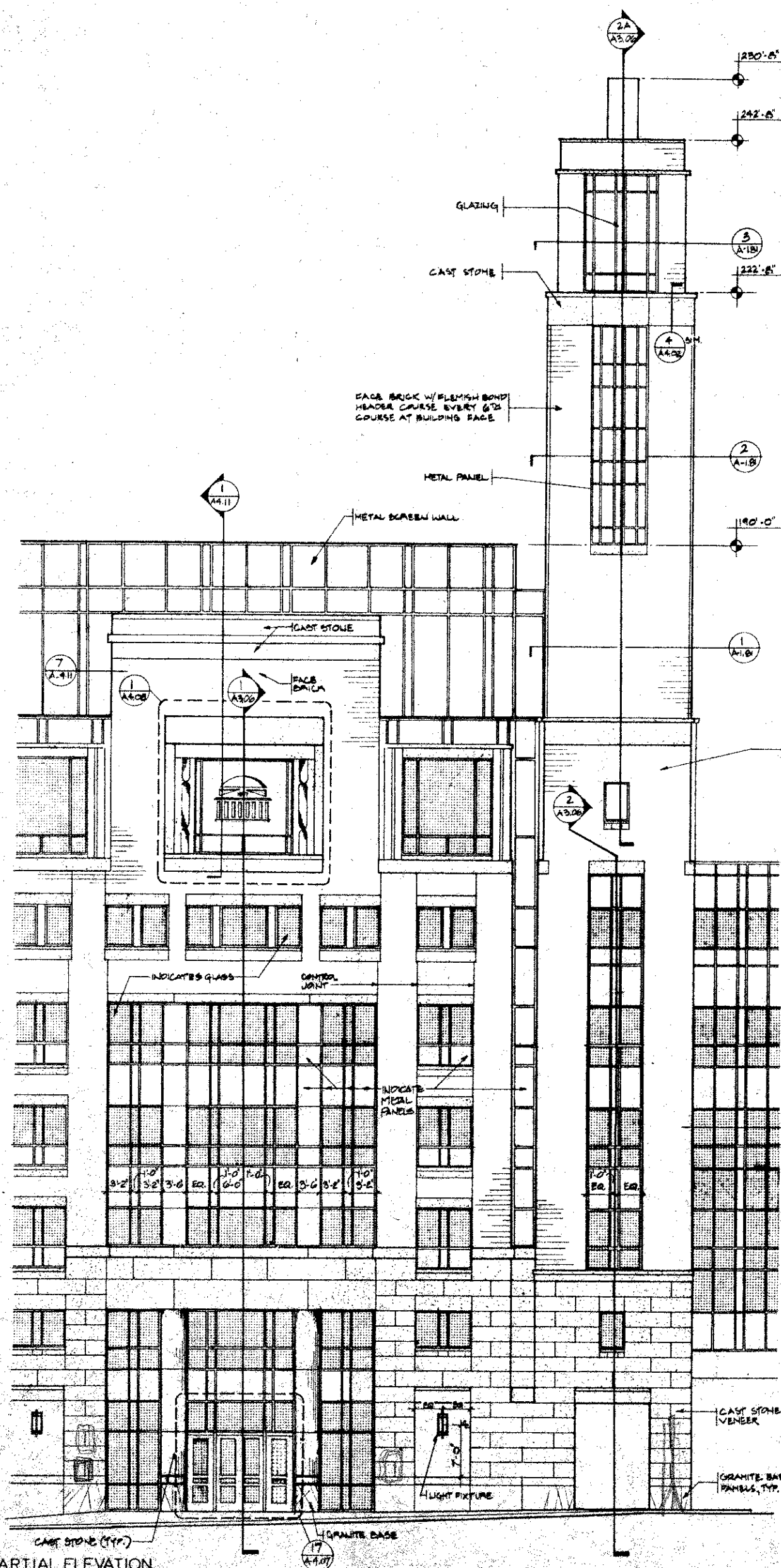
Date

Date

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Date

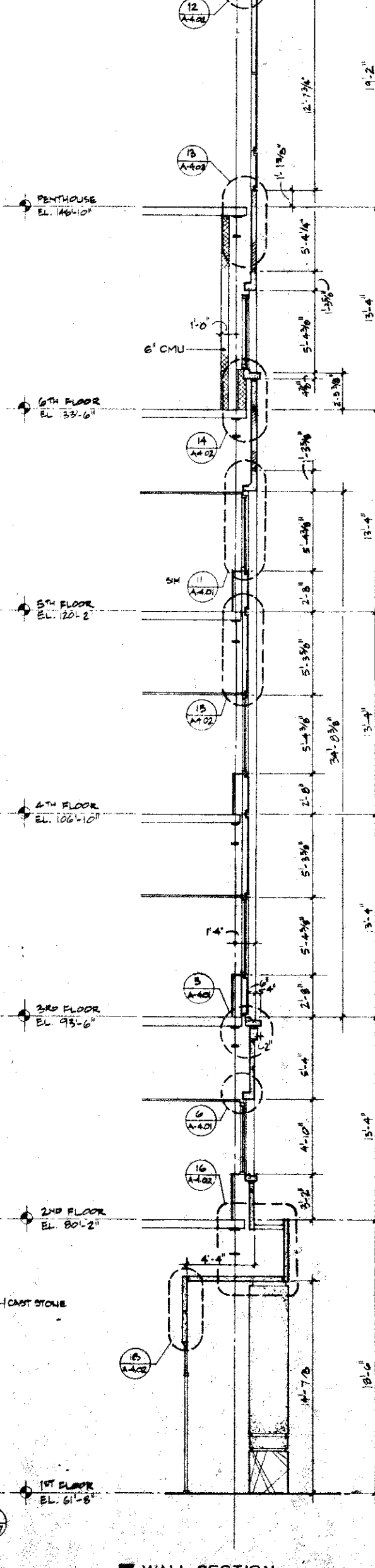
Date



PARTIAL ELEVATION
1/8" = 1'-0"

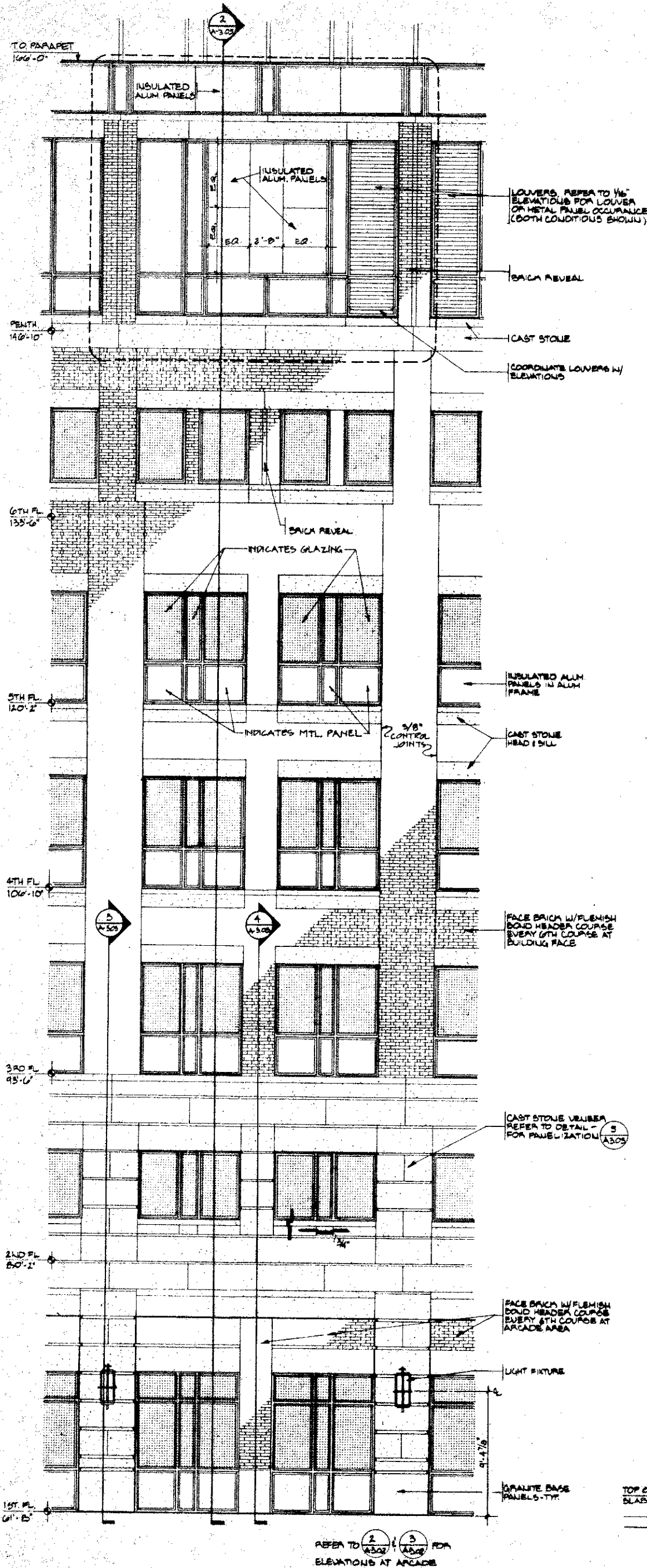


PARTIAL ELEVATION
1/4" = 1'-0"

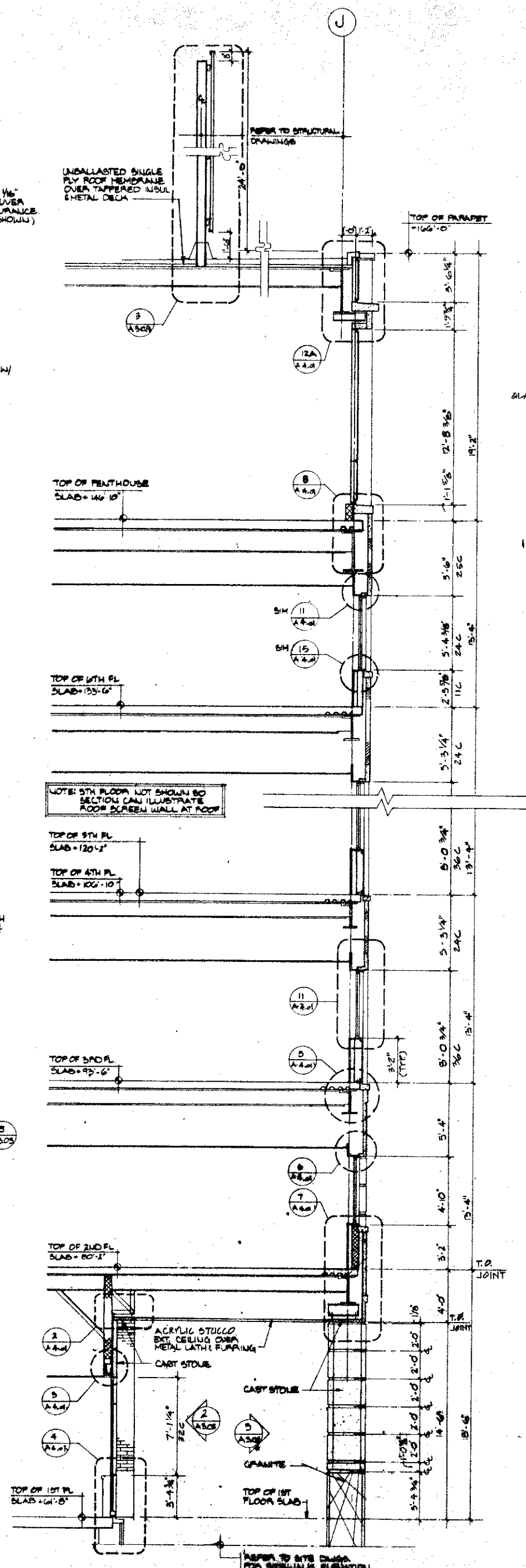


WALL SECTION
1/4" = 1'-0"

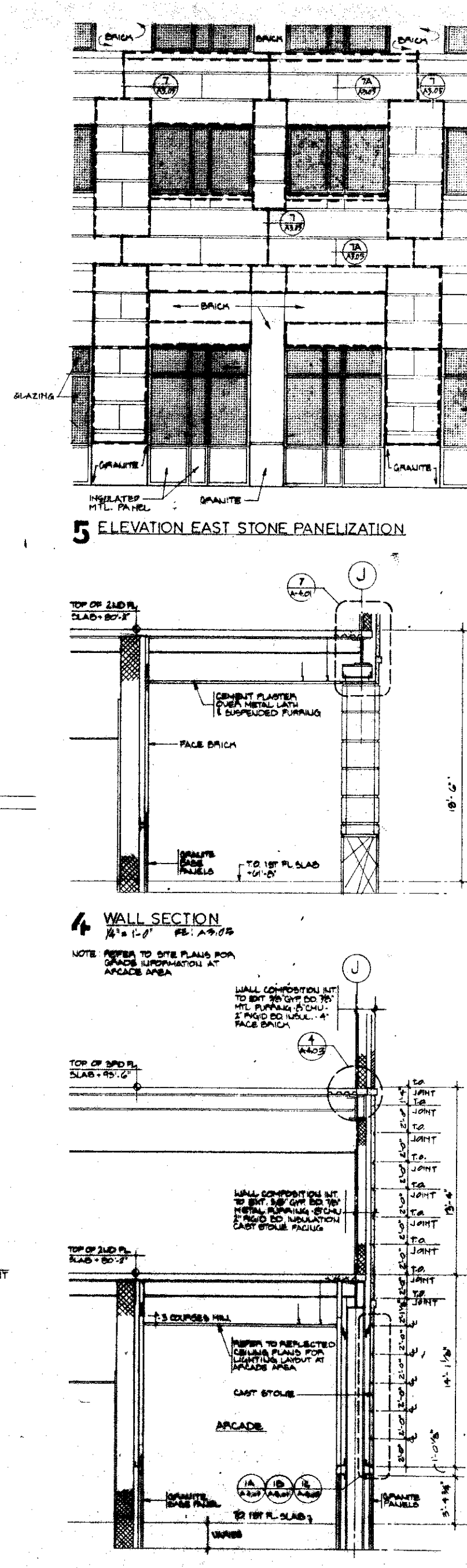
A3.04



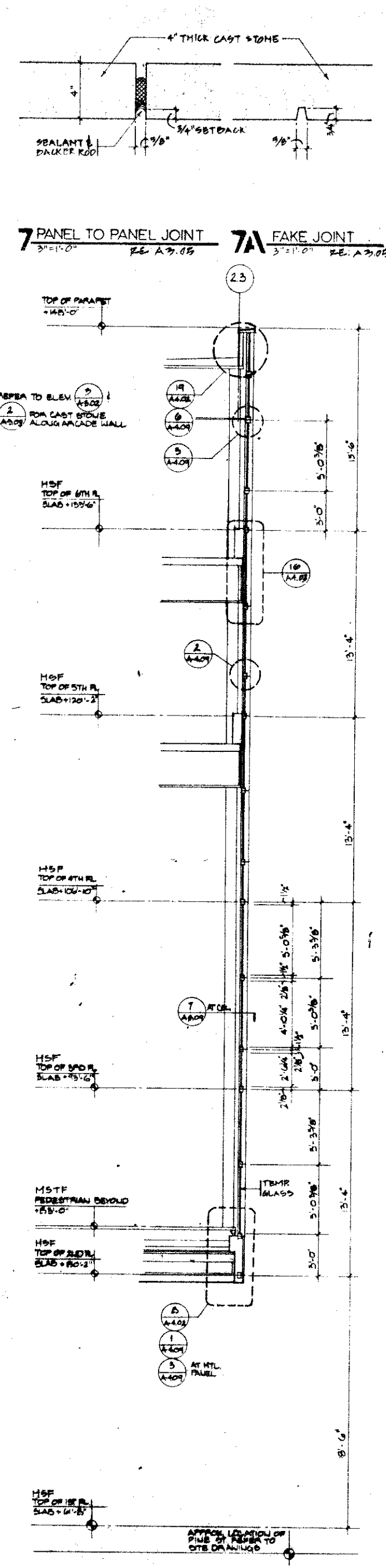
1 PARTIAL ELEVATION
1/4" = 1'-0" RE: A-3.05



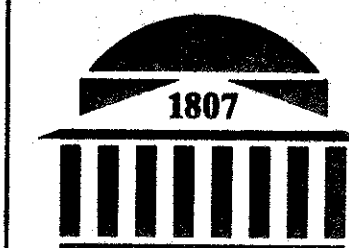
2 WALL SECTION
1/4" = 1'-0" RE: A-3.05



3 WALL SECTION
1/4" = 1'-0" RE: A-3.05



6 WALL SECTION
1/4" = 1'-0" RE: A-3.05, A-3.06

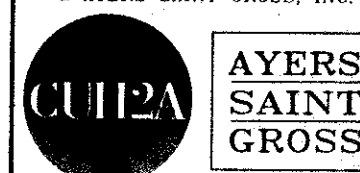


UMAB

HEALTH
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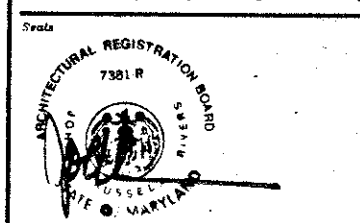
West Baltimore Street
Baltimore, Maryland
21201 1041

A JOINT VENTURE OF CUR2A, INC.
& AYERS SAINT GROSS, INC.



600 Alexander Road Princeton, New Jersey 08543
222 St. Paul Place Baltimore, Maryland 21202
609 452 1212 301 347 8500

Architecture, Engineering, Planning, Interior Design



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Rev.	Date	Description
1	7/5/92	1. REVISE 2
2	6-12-92	1. REVISE 1
3	06-15-92	1. REVISE 1
4	02-07-93	1. REVISE 1
5	02-07-93	1. REVISE 1
6	02-07-93	1. REVISE 1
7	02-07-93	1. REVISE 1
8	02-07-93	1. REVISE 1
9	02-07-93	1. REVISE 1
10	02-07-93	1. REVISE 1
11	02-07-93	1. REVISE 1
12	02-07-93	1. REVISE 1
13	02-07-93	1. REVISE 1
14	02-07-93	1. REVISE 1
15	02-07-93	1. REVISE 1
16	02-07-93	1. REVISE 1
17	02-07-93	1. REVISE 1
18	02-07-93	1. REVISE 1
19	02-07-93	1. REVISE 1
20	02-07-93	1. REVISE 1

Project Number
UMAB 87-016

Scale
1/4" = 1'-0"

Project
UMAB HEALTH SCIENCES FACILITY

Drawing Title
EXTERIOR ELEVATIONS / SECTIONS

Drawing Number

EC/PS MAC

ASD 09020

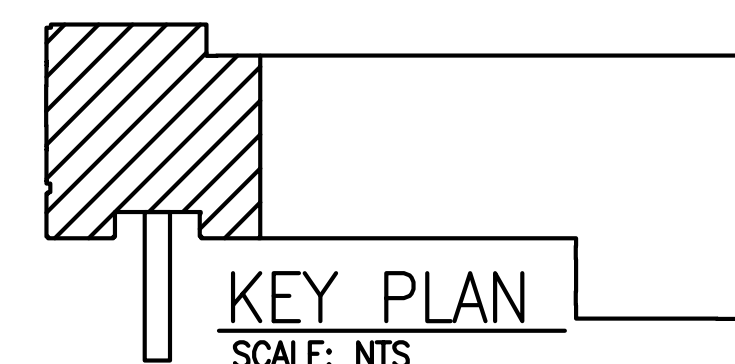
Checked by

Drawn by

1/4" = 1'-0"

ASD 09020

1/4" = 1'-0"



DESIGN CRITERIA

1. SINGLE CELL COOLING TOWER UNIT WEIGHT 20000 LB EA
DOUBLE CELL COOLING TOWER UNIT WEIGHT 27000 LB EA

EXISTING CONSTRUCTION

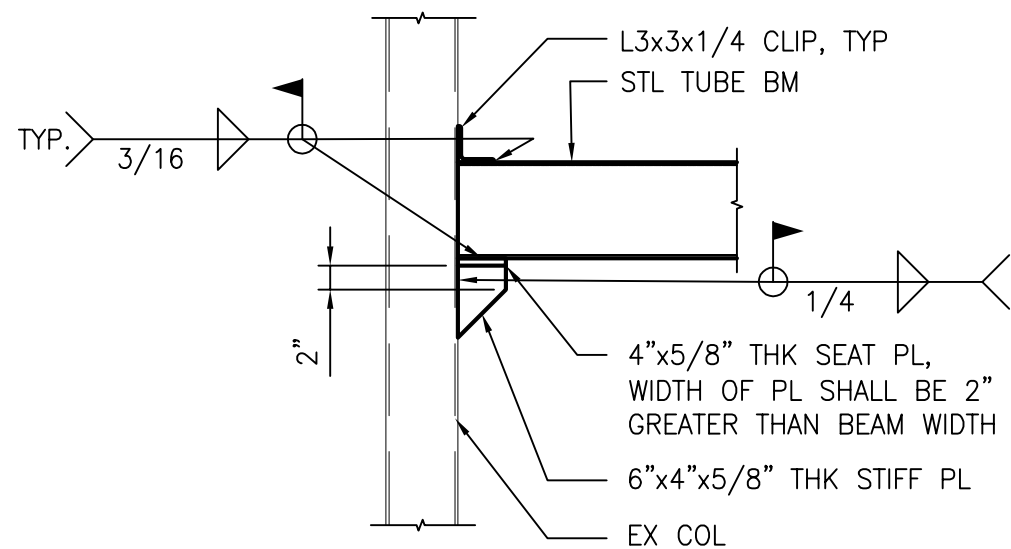
1. ALL MEMBER SIZES AND DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
- A. STRUCTURAL STEEL W-SHAPES – A992 HAVING A MINIMUM YIELD STRENGTH OF 50 KSI
- B. STRUCTURAL STEEL CHANNELS, ANGLES, BARS & PLATES – A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI
- C. SQUARE AND RECTANGULAR TUBING – A500, GRADE B HAVING MINIMUM YIELD STRENGTH OF 46 KSI.
- D. ROUND PIPE – A53, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 35 KSI.
3. BOLTS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS: A. HIGH STRENGTH BOLTS – A325 B. ANCHOR BOLTS – F1554 GR36.
4. ALL BOLTS SHALL BE 3/4" DIAMETER, OPEN HOLES 13/16" DIAMETER, UNLESS OTHERWISE SHOWN OR NOTED.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1) AND SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDS SHALL BE MADE WITH AWS A5.1 E-70XX ELECTRODES.
6. ALL SHOP CONNECTIONS SHALL BE HIGH STRENGTH BOLTED OR WELDED.
7. ALL FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED EXCEPT WHERE DETAILS INDICATE WELDING.
8. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY ARCHITECT/ENGINEER IN WRITING.
9. WRITTEN APPROVAL BY DESIGNATED UNIVERSITY REPRESENTATIVE AND ARCHITECT/ENGINEER SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
10. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS, TO BRACE AND HOLD THE STEEL FRAME IN ALIGNMENT UNTIL ALL WALLS AND ROOF ARE IN PLACE. SUCH BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. CONNECTIONS SHALL BE DESIGNED PER AISC TO CARRY FULL CAPACITY OF UNIFORMLY LOADED MEMBER, UNLESS NOTED OTHERWISE. REACTIONS GREATER THAN FULL MEMBER CAPACITY ARE INDICATED THUS (60K) ON PLAN. REACTIONS WHICH ARE SHOWN ON PLAN ARE IN UNITS OF KIPS (1000 LBS). ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.
12. FOR ALL MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE THE MECHANICAL DRAWINGS.
13. STRUCTURAL STEEL SHALL BE INSPECTED IN THE FIELD BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE UNIVERSITY ENGINEER AND PAID FOR BY THE CONTRACTOR.
14. SHOP DRAWINGS SHOWING ALL OF THE SECTIONS AND DETAILS NECESSARY FOR THE PROPER PLACEMENT AND CONNECTION OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT PRIOR TO FABRICATION AND ERECTION.

STEEL HANDRAILS AND LADDERS

1. SUPPLIER SHALL DESIGN ALL FRAMING INCLUDING HANDRAILS AND GUARDRAILS TO SUPPORT THE FOLLOWING DESIGN LOADS:
- HANDRAILS—
50 LBS/FT OR 200 LBS CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT IN ANY DIRECTION.
- GUARDRAILS—
100 LBS/FT VERTICALLY AND 50 LBS/FT HORIZONTALLY, OR A 200 LBS CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT AND IN ANY DIRECTION TO THE TOP RAIL. A 200 LBS CONCENTRATED LOAD APPLIED ON A 1 S.F. AREA AT ANY POINT FOR REMAINING GUARDRAIL INFILL COMPONENTS.
2. PROVIDE HANGERS, CLIP ANGLES, ETC. AS REQUIRED FOR SUSPENSION OF LADDER FRAMING FROM STRUCTURAL STEEL FRAME.
3. LADDER SHALL CONFORM TO ANSI-A14.3. PROVIDE SAFETY CAGE WHERE INDICATED ON DRAWINGS. SAFETY CAGE TO BE IN CONFORMANCE WITH OSHA REQUIREMENTS AND ANSI A-14.3. SAFETY CAGE TO START 7'-6" ABOVE FINISH FLOOR AND TERMINATE 3'-6" ABOVE TOP LANDING. SAFETY CAGE MATERIAL SHALL MATCH LADDER CONSTRUCTION. WHERE LADDER BOTTOM DOES NOT REST ON A STRUCTURAL CONCRETE SLAB, A CONCRETE SIDEWALK IS NOT CONSIDERED A STRUCTURAL CONCRETE SLAB, TERMINATE RAILS 8 INCHES ABOVE TOP OF GRATING AND CONNECT RAILS TO WALL.
4. SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW PRIOR TO FABRICATION OR ERECTION. STAIR SUPPLIER'S SHOP DRAWINGS SHALL CONTAIN A CERTIFICATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THE STAIR AND GUARDRAIL COMPONENTS HAVE BEEN DESIGNED TO SUPPORT THE SPECIFIED LOADS.

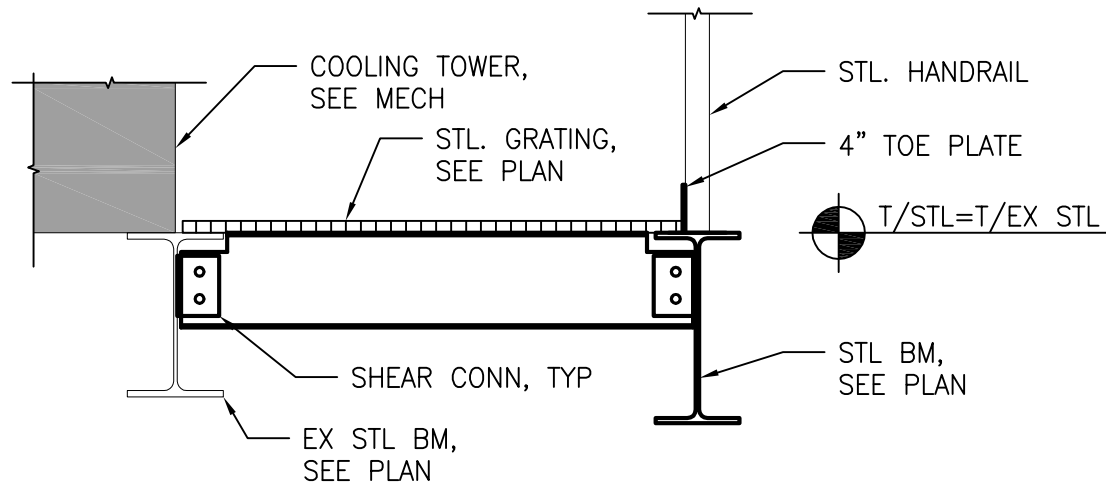


TYPICAL SEATED CONN A

3/4"=1'-0"

S102

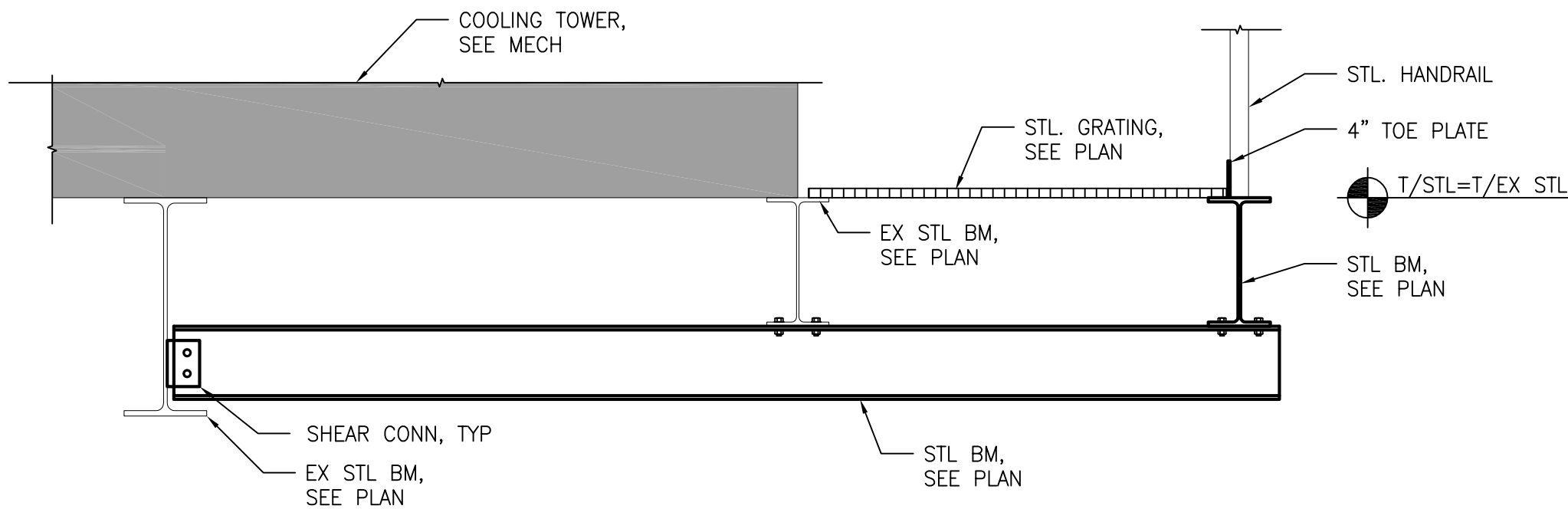
NOTE: ALL STEEL TUBES SHALL HAVE 1/4" THICK END CAPS.



SECTION 1

3/4"=1'-0"

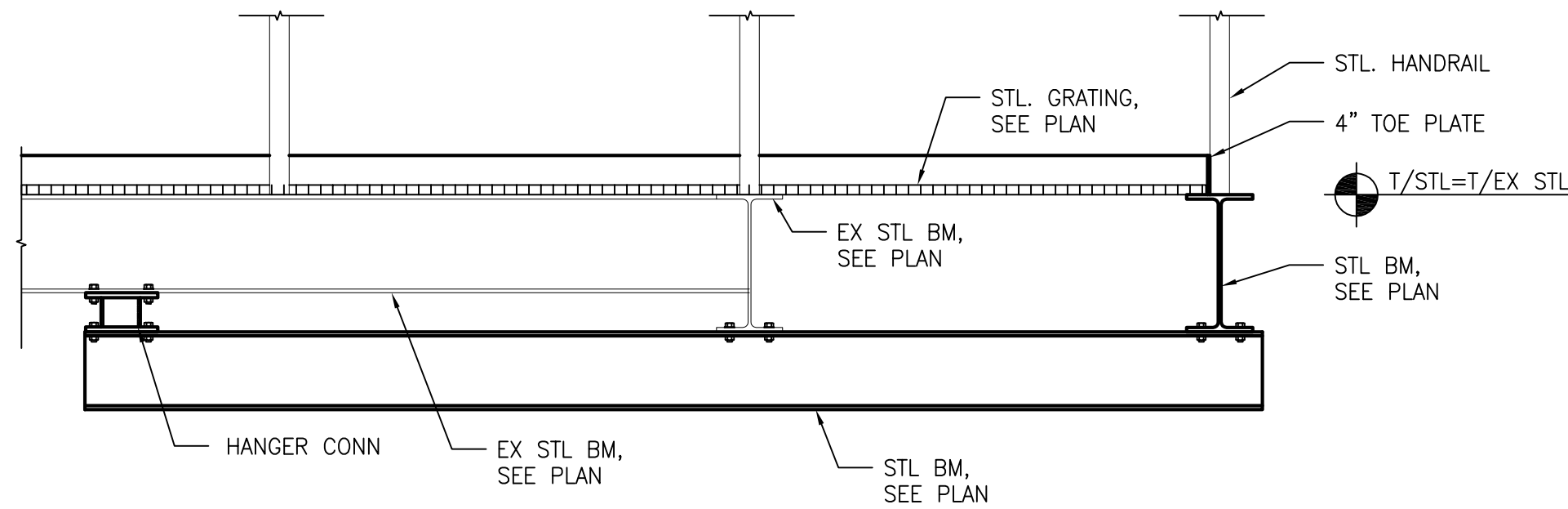
S102



SECTION 3

3/4"=1'-0"

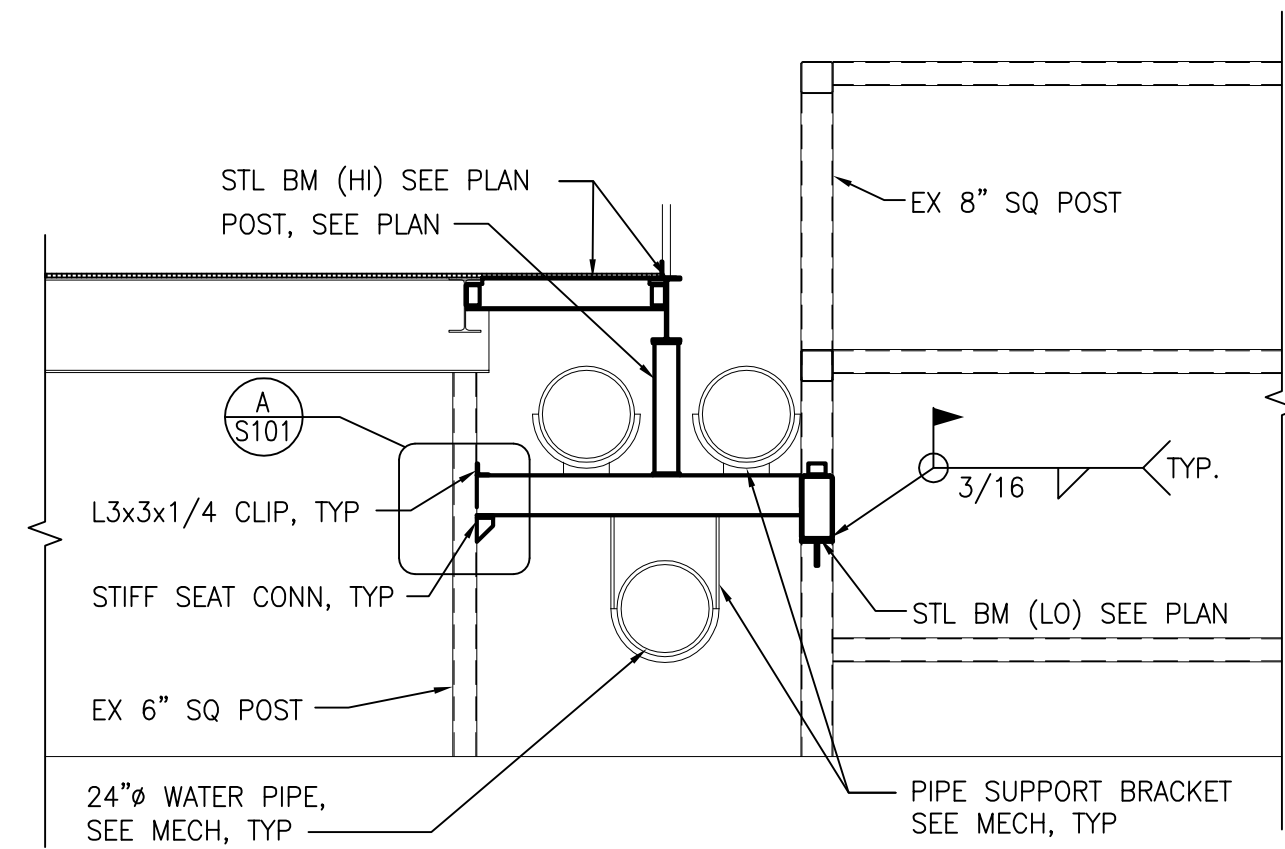
S102



SECTION 4

3/4"=1'-0"

S102

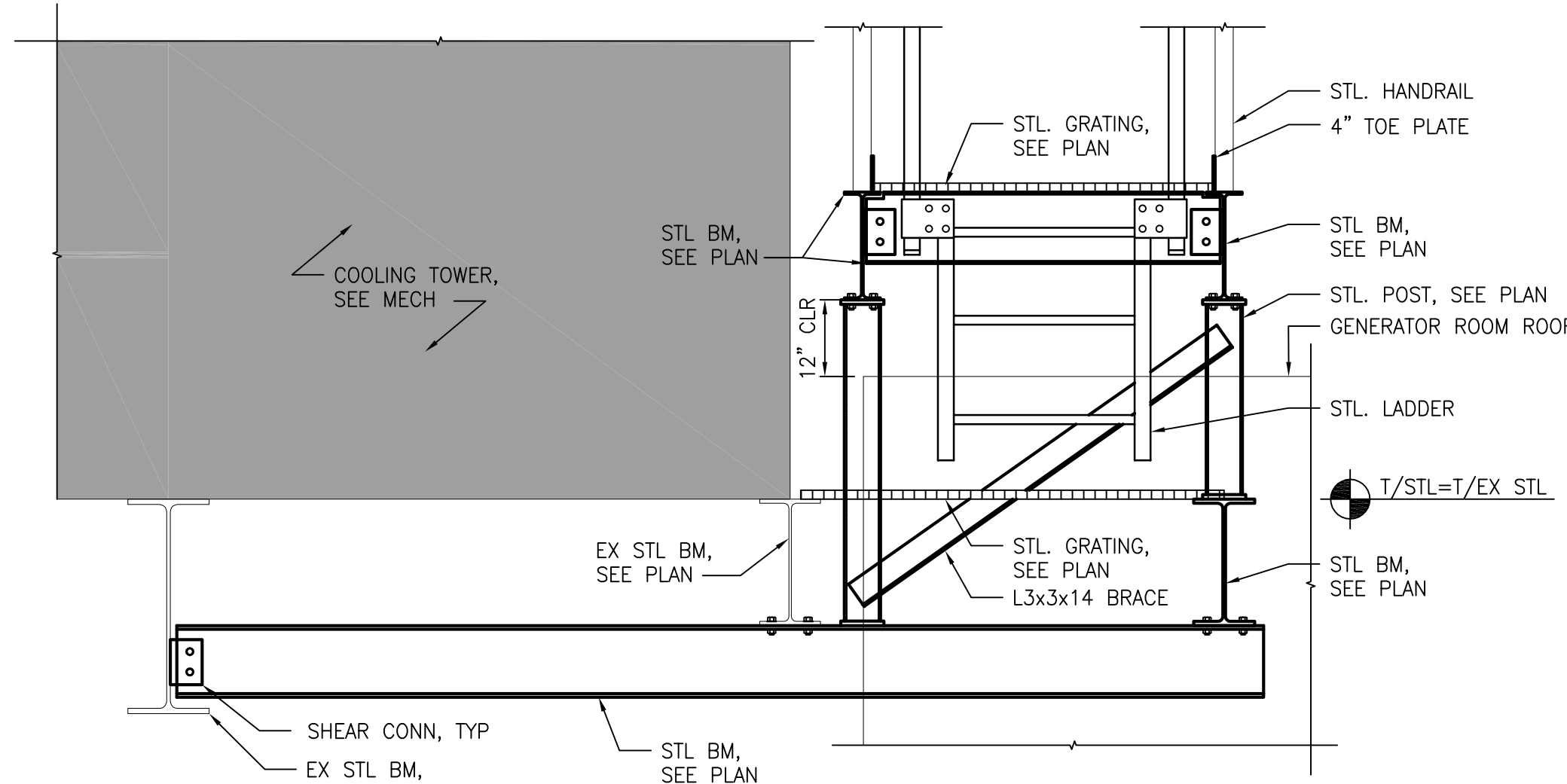


SECTION 2

1/4"=1'-0"

S102

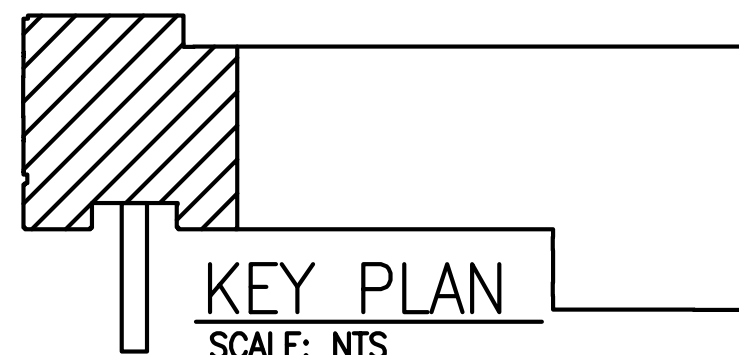
NOTE: ALL STEEL TUBES SHALL HAVE 1/4" THICK END CAPS.



SECTION 3

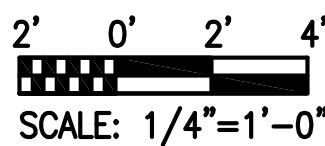
3/4"=1'-0"

S102



KEY PLAN

SCALE: NTS



ADMINISTRATION & FINANCE

FACILITIES MANAGEMENT
ARCHITECTURE, ENGINEERING &
CONSTRUCTION DIVISION
220 ARCH STREET, OFFICE LEVEL 3
BALTIMORE, MARYLAND 21201
PHONE NO. (410) 706-7740
FAX NO. (410) 706-8547

A/E CONSULTANTS



M S Engineers Inc.

10260 OLD COLUMBIA ROAD
SUITE A
COLUMBIA, MD 21046
PHONE: 410/997-1200
FAX: 443/545-5101



CARROLL ENGINEERING, INC.

215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423 PHONE 410-771-1313 FAX

PROFESSIONAL CERTIFICATION. I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 21155
EXPIRATION DATE: 03/13/2018

REGISTRATION/STAMP

PROJECT TITLE :

COOLING TOWER REPLACEMENT
AT
HEALTH SCIENCE FACILITY-1
(HSP-1)
UNIVERSITY OF MARYLAND

UMB BUILDING NO. : 8091

UMB Project NO. : 12-326

A/E PROJECT NO. : UMB-3-2014

CAD FILE NO. :

DATE : 08/15/2016

SHEET TITLE :

ROOF TO DUNNAGE
EQUIPMENT SUPPORT

REVISIONS

NO	DATE	ITEM

SHEET NO.

S102